AGU 2016 FALL MEETING
NASA Earth Science Division, Applied Sciences Program
Summary of Affiliated Sessions and Events

This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important Earth Science Division-related sessions. See the AGU website or app for specific presentations and posters.

Events are arranged by day so you do not have to bring the entire list to the conference every day. Hyperwall talks and flash talks in the exhibit hall are grouped first, listed chronologically. They are followed by the poster sessions, oral sessions, and town halls as a group. The titles of all poster sessions, oral sessions, and town halls are all active hyperlinks that will pull up each session’s AGU conference webpage in a web browser.

In addition to these sessions, AGU has again organized many talks and posters into interdisciplinary SWIRLs. Much like the Applied Sciences Program itself, SWIRLs cut across multiple disciplines to address a particular theme. The Science and Society, and the Extreme Events and Hazards SWIRLs address themes with many papers that should be interesting to the Program.

Two special events will also be of interest to the Earth Science applications community. On Monday night in the Exhibition Hall, the division directors of NASA Earth Science, Planetary Science, and Heliophysics will host an opening night reception with three talks. On Wednesday night, Ignite takes over the Infusion Lounge in San Francisco to host quick-hitting talks on a wide variety of subjects.

See you at AGU!

ENLIGHTEN US, BUT MAKE IT QUICK!
WEDNESDAY DECEMBER 14 | 6 – 8:30PM | INFUSION LOUNGE

For all the details http://esipfed.org/IgniteAGU2016
SUNDAY, 11 DECEMBER 2016

08:00 - 12:30 SAN FRANCISCO MARRIOTT MARQUIS – SALON 2-3
Communicating Science with Any Audience Workshop
Note: invitation or application required

08:00 – 16:00 SAN FRANCISCO MARRIOTT UNION SQUARE – THE SAVOY, 30TH FLOOR
NASA SMD Annual Communication Meeting
Note: invitation or application required; Meeting full

08:00 - 17:00 SAN FRANCISCO MARRIOTT MARQUIS – SALON 7
Hooking Undergraduates into Geophysics Data and Methods (GPS, Lidar, InSAR, Photogrammetry) Through Societally Important Issues
Note: invitation or application required
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions.

See the AGU website or app for specific presentations and posters.
13:40 - 15:40 MOSCONE WEST – 3001
**GC13I** Linking Climate Drivers to Biological Response from Species to Ecosystems II
Conveners: Allison Leidner and Woody Turner

13:40 - 15:40 MOSCONE WEST – 2004
**G13C** New Frontiers, Challenges, and Opportunities for Vertical Motion Observations and Glacial Isostatic Adjustment Modeling II
Conveners: Volker Klemann, David Phillips, Michael Floyd, and Thomas James

13:40 - 15:40 MOSCONE WEST – 3002
**H13Q** Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I
Conveners: Huan Wu, Dennis Lettenmaier, Donglian Sun, and Philip Ward

13:40 - 15:40 MOSCONE WEST – 2022/2024
**U13A** Earth’s Future: The Food-Water-Energy Nexus
Conveners: Ben van der Pluijm, Nancy Grimm, Michael Ellis, and Guy Brasseur

13:40 - 15:40 MOSCONE SOUTH – 310
**NH13B** Unmanned Aerial Systems (UAS) in the Geosciences II
Conveners: Peter Webley, David Pieri, Matthew Fladeland, and Alexander Braun

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**PA13C** GEOValue: Addressing Best Practices for Assessing the Societal Impact and Value of Geospatial Information Based on Use Cases II Posters
Conveners: Franciose Pearlman, Richard Bernkopf, Molly Macauley, and Lawrence Friedl

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**C13B** Dust, Black Carbon, and Other Aerosols in the Cryosphere II Posters
Conveners: McKenzie Skiles, Tom Painter, John Burkhart, and Monica Arienzo

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**GC13B** Human and Ecosystem Health in a Changing World II Posters
Conveners: Vivienne Payne, Jessica Neu, Allison Ray Crimmins, and Marcus Sarofim

14:30 - 15:45 MOSCONE WEST – 2001A
Sharing Science Communication Clinic
Conveners: AGU Sharing Science staff and other communications professionals

16:00 - 18:00 MOSCONE WEST – 3022
**H14C** Global Precipitation Measurement, Validation, and Applications II
Conveners: Yang Hong, Ramesh Kakar, Gail Skofronick Jackson, and Walter Petersen

18:15 - 19:15 MOSCONE SOUTH – 104
**TH15B** Kickoff Conversation on the Importance of Data in the Earth and Space Sciences: A Conversation with Rebecca Moore, Director of Google Earth, Earth Engine & Outreach
Contact: Shelley Stall; Presenter: Brooks Hanson

**TH15D** NASA Earth Science Division Town Hall
Conveners: Jack Kaye, Michael Freilich, Lawrence Friedl, George Komar, Pat Jacobberger-Jellison, Sandra Cauffman, Eric Ianson, and Thomas Zurbuchen
18:00 - 20:00 RECEPTION – EXHIBIT HALL – HYPERWALL – NOTE CONFLICT WITH ESD TOWN HALL
CYGNSS, the Cyclone Global Navigation Satellite System – Ramesh Kakar
The Habitability of Terrestrial Planets – Jim Green
Heliophysics: Exploring the New Wilderness – Steve Clarke
### TUESDAY, 13 DECEMBER 2016

**10:45 - 11:00 EXHIBIT HALL – HYPERWALL**
NASA Global Climate Observations: Discover How Satellites See Climate change – *Jack Kaye*

**11:15 - 11:30 EXHIBIT HALL – HYPERWALL**
Ocean Salinity – *Eric Lindstrom*

**11:45 - 12:00 EXHIBIT HALL – HYPERWALL**
Improving Global-Scale Earth Observation Data and Products to Halt Illegal, Unregulated, and Unreported Fishing – *Miguel Roman*

**12:00 - 13:00 EXHIBIT HALL – HYPERWALL**
Special Presentation: Grand Prize Winners of 2016 AGU Data Visualization and Storytelling Competition – *Mejs Hasan, Matthew Ross, and John Granholm*

**13:00 - 13:07 EXHIBIT HALL – HYPERWALL**
Satellite Precipitation Data: A Reservoir for Applications Users – *Dalia Kirschbaum*

Wildland Fire: Hot and Getting Hotter – *Amber Soja*

**13:50 - 13:57 EXHIBIT HALL – HYPERWALL**
From Remote Sensing Dud to Stud – The ARSET Experience – *Amber Jean McCullum*

**14:50 - 14:57 EXHIBIT HALL – HYPERWALL**
A Deeper Look into California’s Water Resources – *Brittany Zajic*

**15:00 - 15:15 EXHIBIT HALL – HYPERWALL**
NASA’s Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change – *Michael Freilich*

**15:30 - 15:45 EXHIBIT HALL – HYPERWALL**
Global Precipitation Measurements for Science and Society – *Gail Skofronick-Jackson*

**15:45 – 16:00 EXHIBIT HALL – HYPERWALL**
Earth Observations for Global Water Knowledge – *John Bolten*

**16:15 - 16:30 EXHIBIT HALL – HYPERWALL**
Global Agriculture Monitoring Initiative – *Bradley Doorn*

**16:30 - 16:45 EXHIBIT HALL – HYPERWALL**
Space Weather and the Ionosphere – *Alex Young, Living With a Star (Heliophysics applications)*

**08:00 - 10:00 MOSCONE SOUTH – MOSCONE WEST 3002**
**G21C** Recent Advances in the Application of InSAR and High-Resolution Geodetic Data for Crustal Deformation Research I
Conveners: Manoochehr Shirzaei, Roland Burgmann, and David Bekaert

**08:00 - 12:20 MOSCONE SOUTH – POSTER HALL**
**GC21D** Climate Change Impacts on Inland Waters I Posters
Conveners: Jay Austin, John Lenters, Simon Hook, and David Hamilton
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions. See the AGU website or app for specific presentations and posters.

AGU 2016 Fall Meeting | NASA Earth Science Division, Applied Sciences Program Summary of Affiliated Sessions and Events

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
**GC21C Carbon Monitoring Systems Research and Applications I Posters**
Conveners: George Hurtt and Peter Griffith

09:00 - 10:00 MOSCONE WEST – 2022/2024
**A21O Charney Lecture: Making Sense of U.S. Air Quality**
Speaker: Daniel Jacob; Conveners: Bill Lau, Joyce Penner, and Shuyi Chen

09:00 - 10:00 MOSCONE SOUTH – 104
**NH21D White Lecture: Slow Onsets, Abrupt Changes, and Fast Reflexes: Learning from Climate Hazards in a Changing World**
Speaker: Roger Pulwarty; Conveners: Upmanu Lall and Ramesh Singh

10:20 - 12:20 MOSCONE WEST – 3002
**G22A Recent Advances in the Application of InSAR and High-Resolution Geodetic Data for Crustal Deformation Research II**
Conveners: Manoochehr Shirzaei, Roland Burgmann, and David Bekaert

10:20 - 12:20 MOSCONE WEST – 3016
**GC22C Use of Earth Observations in Mitigating Major Environmental Challenges in South and Southeast Asia I**
Conveners: William Crosson, Mir Matin, and Birendra Bajracharya; Chairs: Peeranan Towashiraporn, Eric Anderson, David Ganz, and Ashutosh Limaye

12:30 - 13:30 MOSCONE WEST – 2007
**TH23L Study Update: ESAS 2017, The 2017-2027 Decadal Survey for Earth Science and Applications from Space**
Contact: Art Charo; Presenters: Waleed Abdalati and William Gail

12:30 - 13:30 MOSCONE WEST – 2009
**TH23K NASA Planetary Sciences Division Town Hall**
Presenters: Jim Green and Thomas Zurbuchen

12:30 - 13:30 MOSCONE WEST – 2018
**TH23G NASA Sea Level Change Team Town Hall**
Conveners: Steven Nerem and Carmen Boening

12:30 - 13:30 MOSCONE WEST – 2002
**TH23A AGU Data Fair: Data Skills Recommended for Researchers and Scientists**
Contact: Shelley Stall; Presenters: Erin Robinson, Yolanda Gil, Arfon Smith, John Leeman, Kerstin Lehnert, and Brooks Hanson

12:30 - 13:30 MOSCONE WEST – 2020
**TH23E Future Earth – Research Agenda and Opportunities for Global Sustainability**
Presenters: Thorsten Kiefer, Bruce Glavovic, Eileen Hofmann, Robert Jackson, Joshua Tewksbury, and Maria Uhle

12:30 - 13:30 MOSCONE WEST – 2004
**TH23I PACE: NASA’s Next Generation Aerosol, Cloud and Ocean Color Satellite Mission**

12:30 - 14:00 MOSCONE NORTH – 120/121
**Sharing Science in Plain English (Panel & Lunch)**
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions.

See the AGU website or app for specific presentations and posters.

13:40 - 15:40 MOSCONE NORTH – HALL E
**U23A** The Path Forward from Paris, One Year Later  
Conveners: Denis-Didier Rousseau and Margaret Leinen

13:40 - 15:40 MOSCONE WEST – 3003
**GC23J** Climate Change Impacts on Inland Waters II  
Conveners: Jay Austin, John Lenters, Simon Hook, and David Hamilton

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**GC23G** Use of Earth Observations in Mitigating Major Environmental Challenges in South and Southeast Asia II Posters  
Conveners: William Crosson, David Ganz, Peeranan Towashiraporn, Eric Anderson, Birendra Bajracharya, Mir Martin, and Ashutosh Limaye

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**H23F** Global Precipitation Measurement, Validation, and Applications IV Posters  
Conveners: Yang Hong, Ramesh Kakar, Gail Skofronick Jackson, Walter Petersen, Pierre Kirstetter, and Dalia Kirschbaum

14:00 - 15:45 MOSCONE WEST - 2001A
The Next Frontier: Science Communication and Outreach Workshop for Established Scientists

17:00 – 18:00 MOSCONE WEST – 3000
Press Conference: Integrating scientific research into local decision making  
Participants: Jeffrey Deems, Daniel Ferguson, Tom Painter, Karim-Aly Saleh Kassam

**TH25A** Advancing Global Water Sustainability  
Contact: Richard Lawford; Presenter: Brad Doom

18:15 - 19:15 MOSCONE WEST – 2011
**TH25D** Latest News on NSF Geosciences  
Presenter: Roger Wakimoto

**TH25G** The Agricultural Model Intercomparison and Improvement Project (AgMIP) Town Hall  
Contact: Cynthia Rosenzweig; Presenters: Jonathan Winter, Bruno Basso, and Sonali Prabhat McDermid

18:15 - 19:15 MOSCONE WEST – 2004
**TH25B** How is NASA opening up options for obtaining Earth System Science Measurements from Non-Governmental Small Satellite sources?  
Contact: Christine Bonnix; Presenters: Michael Seablom, William Blackwell, Christina Moats-Xavier, and Michael Freilich
WEDNESDAY, 14 DECEMBER 2016

09:45 – 10:00 EXHIBIT HALL – HYPERWALL
Space Weather and the Ionosphere – Alex Young

10:00 - 10:15 EXHIBIT HALL – HYPERWALL
Story on Arctic Ice – Thomas Wagner

10:45 - 11:00 EXHIBIT HALL – HYPERWALL
Earth observations Supporting Wildfire Management – Vincent Ambrosia

11:15 - 11:30 EXHIBIT HALL – HYPERWALL
Surface Water & Ocean Topography (SWOT) Mission – Tamlin Pavelsky

12:00 - 13:00 EXHIBIT HALL – HYPERWALL
Special Presentation: Grand Prize Winners of 2016 AGU Data Visualization and Storytelling Competition – DEVELOP participant Allison Daniel, Kaytan Kelkar, and DEVELOP participant Sara Lubkin

14:10 - 14:17 EXHIBIT HALL – HYPERWALL

15:00 - 15:15 EXHIBIT HALL – HYPERWALL
NASA’s Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change – Michael Freilich

15:15 - 15:30 EXHIBIT HALL – HYPERWALL
Heliophysics: Exploring the New Wilderness – Steve Clarke

15:30 - 15:45 EXHIBIT HALL – HYPERWALL
The Habitability of Terrestrial Planets – Jim Green

08:00 - 10:00 MOSCONE SOUTH – 102
NH31B Landslide Hazard, Runout Dynamics, Vulnerability, and Risk Analysis I
Conveners: Dalia Kirschbaum, Paola Reichenbach, and Hiroshi Fukuoka

08:00 - 10:00 MOSCONE WEST – 3004
A31N Remote Sensing of CH₄ and CO₂ from Space: Moving toward an Observing System I
Conveners: Annmarie Eldering, Christopher O’Dell, Anna Michalak, and Charles Miller

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
A31E Data Assimilation and Inverse Modeling of the Atmospheric Composition I Posters
Conveners: Avelino Arellano, Daven Henze, and Pablo Saide

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
G31A Global Navigation Satellite System for Geoscience and Hazards Applications I Posters
Conveners: Tony Song, Tonie van Dam, Shuanggen Jin, and Yehuda Bock

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
GC31G New Approaches to Sustained Climate Assessment in the U.S.: Progress, Collaborations across Scales, and Tools I Posters
Conveners: Fred Lipschultz and Emily Cloyd

09:00 - 09:55 MOSCONE SOUTH – 104
GC31K Bolin Lecture: Interweaving climate research and public understanding
Speaker: Alan Betts; Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson and Ali Omar
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions.

See the AGU website or app for specific presentations and posters.

AGU 2016 Fall Meeting  |  NASA Earth Science Division, Applied Sciences Program Summary of Affiliated Sessions and Events

10:20 - 12:20 MOSCONWEST – 3003
**GC32B Global Environmental Change New Fellows Lectures**
Speakers: Jonathan Overpeck, Claire Parkinson, Julie Brigham-Grette, and Weijian Zhou; Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson, and Ali Omar

10:20 - 12:20 MOSCONWEST – 2000
**IN32A Near Real-Time Data for Earth Science and Space Weather Applications I**
Conveners: Michael Goodman, Gerald Bawden, Kevin Murphy, and James Spann

10:30 - 12:30 MOSCONORTH – 120/121
Communicating Your Science: Ask the Experts

11:30 – 12:30 MOSCONWEST – 3000
**Press Conference:** Thomas Zurbuchen (Media Availability)
Participants: Thomas Zurbuchen

12:30 - 13:30 MOSCONWEST – 2005
**TH33H Toward an interagency collaborative modeling framework for multi-sector, multi-stressor, multi-scale impacts and adaptation analysis**
Contact: Gerald Geernaert; Presenter: Robert Vallario

12:30 - 13:30 MOSCONWEST – 2006
**TH33I U.S. Group on Earth Observations (USGEO) Town Hall**
Contact: Jason Gallo; Presenters: Suzette Kimball, Lawrence Friedl, Patrick Harr, Jeff de la Beaujardiere, and Barbara Ryan

12:30 - 13:30 MOSCONORTH – 120/121
Science Policy 101: A Field Guide to Congress

13:40 - 15:40 MOSCONORTH – 3004
**A33O Remote Sensing of CH4 and CO2 from Space: Moving toward an Observing System III**
Conveners: Annmarie Eldering, Christopher O’Dell, Anna Michalak, and Charles Miller
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions.

**AGU 2016 Fall Meeting** | NASA Earth Science Division, Applied Sciences Program Summary of Affiliated Sessions and Events

---

**13:40 - 15:40 MOSCONE WEST – 2004**

**G33C** Recent Advances in SAR Technology for Earth Observation I  
Conveners: Jingyi Chen, Zhong Lu, Lin Liu, and Thomas Farr

---

**13:40 - 18:00 MOSCONE SOUTH – POSTER HALL**

**PA33C** Socioeconomic Impact Analysis for Earth Observation Science Posters  
Conveners: Eric Lindquist and Vince Ambrosia

---

**13:40 - 18:00 MOSCONE SOUTH – POSTER HALL**

**PA33B** Integrating Science and Users for NASA Mission Development: NASA’s New Path Forward in Science Applications Posters  
Conveners: Vanessa Escobar and Christine Bonniksen

---

**13:40 - 18:00 MOSCONE SOUTH – POSTER HALL**

**A33B** Climate Sensitivity and Feedbacks: Advances and New Paradigms I Posters  
Conveners: Brian Kahn, Alexandra Jonko, Mark Richardson, and Mark Zelinka

---

**13:40 - 18:00 MOSCONE SOUTH – POSTER HALL**

**IN33B** Near Real-Time Data for Earth Science and Space Weather Applications II Posters  
Conveners: Michael Goodman, Gerald Bawden, Kevin Murphy, and James Spann

---

**16:00 - 16:55 MOSCONE WEST – 2022/2024**

**G34A** Bowie Lecture: InSAR Geodesy: The Next Phase  
Ivan I Mueller Award for Distinguished Service and Leadership  
Paul G. Silver Award for Outstanding Scientific Leadership  
Speaker: Mark Simmons; Conveners: Susan Owen and Geoffrey Blewitt

---

**16:00 - 18:00 MOSCONE SOUTH – 306**

**NH34B** Landslide Hazard, Runout Dynamics, Vulnerability, and Risk Analysis II  
Conveners: Dalia Kirschbaum, Paola Reichenbach, and Hiroshi Fukuoka

---

**16:00 - 18:00 MOSCONE WEST – 3005**

**GC34D** New Approaches to Sustained Climate Assessment in the U.S.: Progress, Collaborations across Scales, and Tools II  
Conveners: Fred Lipschultz and Emily Cloyd

---

**18:00 - 20:30 INFUSION LOUNGE – 124 ELLIS STREET, SAN FRANCISCO**

---
THURSDAY, 15 DECEMBER 2016

09:45 – 10:00 EXHIBIT HALL – HYPERWALL
Story on Arctic Ice – Thomas Wagner

10:15 – 10:30 EXHIBIT HALL – HYPERWALL
NASA Earth Observation Systems and Applications for Public Health – Shobhana Gupta

09:45 – 10:00 EXHIBIT HALL – HYPERWALL
The Hole Ozone Story – Richard Eckman

12:45 – 13:00 EXHIBIT HALL – HYPERWALL
Satellite View of Wildfire – Amber Soja

13:00 - 13:07 EXHIBIT HALL – HYPERWALL
Monitoring Landslides from Space – Dalia Kirschbaum

14:00 - 14:07 EXHIBIT HALL – HYPERWALL
The Eventful Earth—Seen Through NASA Data in Giovanni – Jennifer Wei

14:40 - 14:47 EXHIBIT HALL – HYPERWALL
Delve into Curtain Data with DEVELOP – Kathleen Moore

14:40 - 14:47 EXHIBIT HALL – HYPERWALL
Globe Observer: Citizen Scientist Observations in Support of Earth System Science – Holli Riebeek Kohl

15:15 – 15:30 EXHIBIT HALL – HYPERWALL
Earth’s Biodiversity: The View from Space – Allison Leidner/Woody Turner

15:30 – 15:45 EXHIBIT HALL – HYPERWALL
The Role of Methane in Climate Change – Daniel Jacob

16:30 – 16:45 EXHIBIT HALL – HYPERWALL
Observing Earth from Space: The Fires in Northern Iraq – Ralph Kahn

08:00 - 11:00 MOSCONE WEST – 2001A
AGU Cinema: Short Films on Science
08:53 Applied Sciences: Mosquito Meets MODIS

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
NH41B Landslide Hazard, Runout Dynamics, Vulnerability, and Risk Analysis III Posters
Conveners: Dalia Kirschbaum, Paola Reichenbach, and Hiroshi Fukuoka

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
A41F Remote Sensing of CH4 and CO2 from Space: Moving toward an Observing System IV Posters
Conveners: Annmarie Eldering, Christopher O’Dell, Anna Michalak, and Charles Miller

08:00 - 12:20 MOSCONE SOUTH – POSTER HALL
GC41B Climate Variability and the African Environment, Water Resources, and Food Security I Posters
Conveners: Charles Ichoku, Robinson Mugo, Tsegaye Tadesse, Edward Beighley, Douglas Alsdorf, and Africa Flores
10:20 - 12:20 MOSCONE WEST – 3018
**H42D** Remote Sensing Applications in Hydrology: Spatial Patterns and Vertical Land-Surface and Aquifer-Storage Change II  
Conveners: Simon Stisen, Robert Carruth, Brian Conway, and Luis Samaniego

10:20 - 12:20 MOSCONE SOUTH – 309
**ED42A** NASA Science Mission Directorate Science Education: Activation for STEM Learning I  
Conveners: Moses Milazzo, Richard Vaughan, Sheri Klug Boonstra, and Kristen Erickson

10:20 - 12:20 MOSCONE SOUTH – 102
**U42A** Integration of Climate, Hydrology, Social Science, and Water Management: Connecting Hydroclimate Models with Stakeholder Need  
Conveners: Elizabeth Elliott McClenny, Paul Ulrich, Reed Maxwell, Alyssa DeVincenitis, Marielle Pinheiro, Rich Pauloo, Scott Devine, and Ellie White

11:30 - 12:30 MOSCONE WEST – 2001A
Science Policy 201: Advocacy in Action

12:30 - 13:30 MOSCONE WEST – 2002
**TH43I** The Group on Earth Observations (GEO) Update on Progress and Future Plans  
Conveners: Douglas Cripe; Presenters: Barbara Ryan, Alyssa Whitcraft, Nestor Fernandez, Edward Clark, Eric Lindstrom, Lawrence Friedl, and Argyro Kavvada

13:40 - 14:35 MOSCONE WEST – 2022/2024
**GC43G** Schneider Lecture Connecting Climate Science to Policy: from Global Food Production to the US Supreme Court  
Speaker: David Battisti; Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson, and Ali Omar

13:40 - 15:40 MOSCONE SOUTH – 309
**ED43F** Public Engagement with Science: Institutional Structures and Supports I  
Conveners: Emily Cloyd, Katie Reeves, and Elana Kimbrell

13:40 - 15:40 MOSCONE WEST – 3003
**GC43F** Climate Variability and the African Environment, Water Resources, and Food Security II  
Conveners: Charles Ichoku, Robinson Mugo, Tsegaye Tadesse, and Edward Beighley

13:40 - 15:40 MOSCONE WEST – 3018
**H43O** Remote Sensing Applications for Water Resources Management, Including Irrigation, Droughts, Floods, and Associated Water Cycle Extremes I  
Conveners: Sushel Unninayar, Richard Lawford, Venkataraman Lakshmi, and Forrest Melton

13:40 - 15:40 MOSCONE SOUTH – 104
**NH43D** NASA Application Science Readiness for Disaster Response I  
Conveners: Tim Stough and David Green

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**ED43B** NASA Science Mission Directorate Science Education: Activation for STEM Learning II Posters  
Conveners: Moses Milazzo, Richard Vaughan, and Kristen Erickson

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL
**NH43C** Landslide Hazard, Runout Dynamics, Vulnerability, and Risk Analysis IV Posters  
Conveners: Dalia Kirschbaum, Paola Reichenbach, and Hiroshi Fukuoka
This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important ESD-related sessions. See the AGU website or app for specific presentations and posters.

14:40 - 15:40 MOSCONE WEST – 2022/2024
**GC43H Tyndall History of Global Environmental Change Lecture: Earth from Space: The Power of Perspective**
Speaker: Waleed Abdalati; Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson, and Ali Omar

16:00 - 18:00 MOSCONE WEST – 2002
**G44A Global Navigation Satellite System for Geoscience and Hazards Applications II**
Conveners: Tony Song, Tonie van Dam, Shuanggen Jin, and Yehuda Bock

16:00 - 18:00 MOSCONE WEST – 3018
**H44D Remote Sensing Applications for Water Resources Management, Including Irrigation, Droughts, Floods, and Associated Water Cycle Extremes II**
Conveners: Sushel Unninayar, Richard Lawford, Venkataraman Lakshmi, Forrest Melton, and Mirela Tulbure

18:15 - 19:15 MOSCONE WEST – 2005
**TH23B Arctic-COLORS (Coastal Land Ocean Interactions): A NASA field campaign scoping study**
Contact: Peter Hernes; Presenters: Antonio Mannino, Marjorie Friedrichs, Patricia Matrai, Joseph Salisbury, and Maria Tzortziou

**TH45E Providing direct-to-consumer Earth science outreach - the TravelingGeologist case study**
Contact: Christopher Spencer; Presenters: Kirk Schleiffarth and Jess Kapp

18:15 - 19:15 MOSCONE WEST – 2011
**TH45D GeoPolicy Connect - A New Initiative to Bridge the Science and Policy Divide**
Contact & Presenter: Alexandra Shultz

18:15 - 19:15 MOSCONE WEST – 2020
**TH45A Awards & Grants Advancing Your Early Earth Science Career: Multi-agency Perspectives**
Contact: Gyami Shrestha; Presenters: Nancy Cavallaro, Zhiliang Zhu, Erika Marin-Spiotta, Karina Schafer, and Elisabeth Larson
FRIDAY, 16 DECEMBER 2016

10:30 – 12:00 EXHIBIT HALL – HYPERWALL
Before the Flood – *Documentary Film by Leonardo DiCaprio*

08:00 - 10:00 MOSCONEx WEST – 3003
**GC51F** Advances in Earth Observation for Agricultural Monitoring (GEOGLAM): Food Security and Early Warning I
Conveners: Alyssa Whitcraft, Chris Justice, and Felix Rembold

08:00 - 10:00 MOSCONEx WEST – 3001
**GC51H** Earth Science Results from New Imaging Spectroscopy Measurements around the Globe I
Conveners: David Thompson, Robert Green, Elizabeth Middleton, and Tom Painter

08:00 - 12:20 MOSCONEx SOUTH – POSTER HALL
**H51H** Remote Sensing Applications for Water Resources Management, Including Irrigation, Droughts, Floods, and Associated Water Cycle Extremes III Posters
Conveners: Sushel Unninayar, Richard Lawford, Venkataraman Lakshmi, and Forrest Melton

08:00 - 12:20 MOSCONEx SOUTH – POSTER HALL
**GC51D** Taking the Temperature of the Earth: Challenges, Trends, and Applications across all Earth Surface Domains I Posters
Conveners: Glynn Hulley, Darren Ghent, and Simon Hook

08:00 - 12:20 MOSCONEx SOUTH – POSTER HALL
**A51K** Understanding and Attributing Greenhouse Gas Fluxes from Urban Systems and Major Hot-Spots I Posters
Conveners: Riley Duren, Daniel Mendoza, James Butler, Jocelyn Turnbull, Irene Xueref-Remy, and Thomas Lauvaux

08:00 - 13:00 MOSCONEx WEST – 2001A
AGU Cinema: Short Films on Science
12:53 Applied Sciences: Mosquito Meets MODIS

10:20 - 12:20 MOSCONEx WEST – 3001
**GC52A** Earth Science Results from New Imaging Spectroscopy Measurements around the Globe II
Conveners: David Thompson, Robert Green, Elizabeth Middleton, and Tom Painter

13:40 - 15:40 MOSCONEx WEST – 3018
**H53N** Remote Sensing Applications for Water Resources Management, Including Irrigation, Droughts, Floods, and Associated Water Cycle Extremes IV
Conveners: Sushel Unninayar, Richard Lawford, Venkataraman Lakshmi, Forrest Melton, Christine Mangshing Lee, and Ashutosh Limaye

13:40 - 15:40 MOSCONEx WEST – 3005
**GC53H** Taking the Temperature of the Earth: Challenges, Trends, and Applications across all Earth Surface Domains II
Conveners: Glynn Hulley, Darren Ghent, and Simon Hook
13:40 - 15:40 MOSCONE WEST – 3004  
**A53M Understanding and Attributing Greenhouse Gas Fluxes from Urban Systems and Major Hot-Spots II**  
Conveners: Riley Duren, Daniel Mendoza, James Butler, Jocelyn Turnbull, and Irene Xuref-Remy

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL  
**NH53A NASA Application Science Readiness for Disaster Response II Posters**  
Conveners: Tim Stough and David Green

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL  
**GC53A Advances in Earth Observation for Agricultural Monitoring (GEOGLAM): Food Security and Early Warning II Poster**  
Conveners: Alyssa Whitcraft, Chris Justice, and Felix Rembold

13:40 - 18:00 MOSCONE SOUTH – POSTER HALL  
**GC53C Earth Science Results from New Imaging Spectroscopy Measurements around the Globe III Posters**  
Conveners: David Thompson, Robert Green, Elizabeth Middleton, and Tom Painter

16:00 - 18:00 MOSCONE WEST – 3018  
**H54D Remote Sensing Applications for Water Resources Management, Including Irrigation, Droughts, Floods, and Associated Water Cycle Extremes V**  
Conveners: Sushel Unninayar, Richard Lawford, Venkataraman Lakshmi, Forrest Melton, Patricia Lawston, and Joseph Santanello

16:00 - 18:00 MOSCONE WEST – 3005  
**GC54C Taking the Temperature of the Earth: Challenges, Trends, and Applications across all Earth Surface Domains III**  
Conveners: Glynn Hulley, Darren Ghent, and Simon Hook

16:00 - 18:00 MOSCONE WEST – 3004  
**A54G Understanding and Attributing Greenhouse Gas Fluxes from Urban Systems and Major Hot-Spots III**  
Conveners: Riley Duren, Daniel Mendoza, James Butler, and Jocelyn Turnbull