

2020 AGU FALL MEETING: SCHEDULE OF NASA CAPACITY BUILDING PROGRAM EVENTS



INTRODUCTION TO CAPACITY BUILDING

NASA satellite and airborne missions continuously collect information about the Earth's atmosphere, ocean, & land surfaces to support informed decisions and policies. This data is freely available to the public through NASA's Distributed Active Archive Centers (DAACs) and can be found at earthdata.nasa.gov. These Earth observations help to monitor forecast important parameters related to water resources, disasters, ecological forecasting, agriculture & food security, health and air quality, urban development, transportation and infrastructure, and energy.

To meet the growing demand for opportunities to form skills in the use and application of geospatial data and scientific information for societal good, NASA Earth Applied Sciences' Capacity Building Program engages individuals & institutions around the globe through online & in-person trainings, rapid feasibility studies, & multi-year co-development projects. In the first three quarters of 2020, the Capacity Building Program reached 17,910 people from 161 countries & all 50 US states.

Please join us at the AGU Fall Meeting as we share our information about our approaches to capacity building, our research results, & our lessons learned in 40 sessions, oral talks, eLightning talks, posters, & town hall events. For more CBP Information: [☞](#)



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AGU FALL
MEETING

WEEK AT A GLANCE

(ET) **12/07**

- 07:00 – 23:59 Addressing the Need for Earth Observation Capacity Development at Local, National, Regional, & Global Scales II [Poster]
- 07:00 – 23:59 Overcoming Global Barriers to Entry in Remote Sensing through Increasingly Accessible Education Opportunities [Poster]
- 07:00 – 23:59 NASA's Approach to Building Capacity to Use Earth Observations: Reaching Multiple Geographic Scales [Poster]
- 07:00 – 23:59 Building Capacity for Service Delivery: Air Quality Training for Stakeholders in the Lower Mekong Region [Poster]
- 07:00 – 23:59 Quantifying Post-Fire Vegetation Recovery on Colorado's Front Range
- ⚡ 08:30 – 09:30 Virtual Communication & Capacity-Building Activities in Support of International Scientific Collaboration I
- ⚡ 08:39 – 08:42 Virtual Learning to Meet Users' Needs: Capacity Building Experiences under COVID-19 Restrictions
- ⚡ 13:39 – 13:42 Implications of Differing Forest Cover Estimates for Conservation & Management, Reporting on the UN's Sustainable Development Goals
- ⚡ 19:00 – 20:00 Virtual Communication & Capacity-Building Activities in Support of International Scientific Collaboration II
- ⚡ 19:24 – 19:27 Conducting Feasibility Studies in a Virtual World: Lessons Learned & Emerging Best Practices from DEVELOP
- 20:30 – 21:30 Addressing the Need for Earth Observation Capacity Development at Local, National, Regional, & Global Scales I
- 20:34 – 20:38 Feasibility Studies as Catalysts for Capacity Building: The DEVELOP Experience from Local to National Scale
- 21:02 – 21:06 Use Cases of SERVIR Land Use Cover Data in Eastern & Southern Africa Countries: Research, Policy & Capacity Building Footprint
- 23:50 – 23:54 Mapping Wetland & Riparian Areas to Support Rio Grande Cutthroat Trout Habitat Restoration

(ET) **12/08**

- 07:00 – 23:59 Gender & Social Inclusion in Climate Data Services & Analyses I [Posters]
- 07:00 – 23:59 Engaging Women & Indigenous Peoples in Geospatial Information on the Amazon Biome. Advances on the State of the Question
- 07:00 – 23:59 Relating Land Cover Change to Runoff Distribution Using NASA Earth Observation in Riley County, Kansas
- 20:42 – 20:46 Building a Real-Time Flood Prediction Model for Improving Early Warning Systems in Ellicott City, Maryland
- 22:00 – 23:00 Capacity Building in the Field of SAR Remote Sensing: Comparing Current Training Resources, Tools, & Services to Community Needs [Town Hall]
- 23:50 – 23:54 ARSET: Building the Skills to Acquire & Use NASA Satellite & Model Data for Decision Support

(ET) **12/09**

- ⚡ 10:00 – 10:03 SERVIR Application - Mekong's RDCYIS to Enhance Drought Forecast and Warning Generation in Ninh Thuan Province, Vietnam
- 10:00 – 11:00 Implementing Earth Observations in South & Southeast Asia to Address Environmental Challenges I

- ⚡ 10:03 - 10:06 Developing a Customizable Composite Drought Index for Pakistan
- ⚡ 10:30 - 10:33 Estimating Forest Stand Height in Savannakhet, Lao PDR Using InSAR and Backscatter Methods with L-Band SAR Data
- ⚡ 10:42 - 10:45 Ongoing Development & Adoption of Regional Near Real Time Flood Monitoring Service by SERVIR-Mekong: Challenges, Innovations & Upcoming Deliveries

(ET) **12/10**

- 07:00 - 23:59 Utilizing Airborne & Space-Based Remote Sensing Imagery to Implement the Unvegetated-Vegetated Ratio to Assess Salt Marsh Vulnerability in South Carolina [Poster]
- 07:00 - 23:59 Narrowing the Gap in Environmental Problem Solving: Connecting with Communities Using Emerging Geospatial & Communications Technologies Session II [Poster]
- ⚡ 07:00 - 08:00 Session I
- ⚡ 07:01 - 07:04 Building Capacity for Policy-makers in a Virtual Setting: Providing Tools to Analyze Wildfire Smoke Plumes & Their Impacts
- ⚡ 07:04 - 07:07 Building a Bilingual Google Earth Engine Dashboard to Increase Accessibility to Long-term Time Series Remote Sensing for Monitoring Saline System Changes in Chile's Atacama Des

(ET) **12/11**

- 07:00 - 23:59 Using NASA Earth Observations to Identify Wildfire Impacts on Hydrologic Functions & Recovery in the Gila National Forest
- 07:33 - 07:39 Quantifying Changes in Urban Albedo with NASA Earth Observations to Reduce the Urban Heat Island Effect in Cambridge, Massachusetts

(ET) **12/14**

- 19:00 - 20:00 SERVIR's Approach to Ensuring Sustainable Services in the Use of Earth Observations in Decision-Making [Town Hall]

(ET) **12/15**

- 07:00 - 23:59 Lessons Learned in Implementing Virtual Capacity Building Activities in Earth Observation to Meet Central American Integration System Environmental Management Needs
- ⚡ 07:00 - 23:59 Modeling the Worst-Case-Scenario of Soil Drydown for Agricultural Drought Monitoring in Kansas Using NASA Earth Observations & In-situ Parameters

(ET) **12/17**

- 07:00 - 08:00 Earth Observation Applications to Agriculture & Food Security System Shocks I
- 07:04 - 07:08 Responding to Emerging Food Security Needs Using Earth Observation Systems in Kenya
- 07:28 - 07:32 The Need for Soil Moisture in Detecting Desert Locust Breeding Grounds: A Satellite Assisted Modeling Approach
- 07:32 - 07:36 Limitations of Remote Sensing for Assessing Damage Caused by Desert Locusts during the East Africa Upsurge (Invited)

⚡ = eLightning Session or Presentation

MONDAY, DECEMBER 7th

POSTER SESSIONS & PRESENTATIONS

| TIME (ET) | SPEAKER | TITLE | SESSION |
|---------------|-----------------------|---|--------------|
| 07:00 – 23:59 | Lauren Childs-Gleason | Addressing the Need for Earth Observation Capacity Development at Local, National, Regional, & Global Scales II | 🔗 SY002 |
| 07:00 – 23:59 | Brock Blevins | Overcoming Global Barriers to Entry in Remote Sensing through Increasingly Accessible Education Opportunities | 🔗 SY002-0005 |
| 07:00 – 23:59 | Lauren Childs-Gleason | NASA's Approach to Building Capacity to Use Earth Observations: Reaching Multiple Geographic Scales | 🔗 SY002-0011 |
| 07:00 – 23:59 | Farrukh Chishtie | Building Capacity for Service Delivery: Air Quality Training for Stakeholders in the Lower Mekong Region | 🔗 SY002-0009 |
| 07:00 – 23:59 | Eric Jensen | Quantifying Post-Fire Vegetation Recovery on Colorado's Front Range | 🔗 GC004-0013 |

⚡ eLIGHTNING SESSIONS & PRESENTATIONS

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|---------------|------------------|---|------------|
| 08:30 – 09:30 | Nancy Searby | Virtual Communication & Capacity-Building Activities in Support of International Scientific Collaboration I | 🔗 SY007 |
| 08:39 – 08:42 | Christine Mataya | Virtual Learning to Meet Users' Needs: Capacity Building Experiences under COVID-19 Restrictions | 🔗 SY007-03 |
| 13:39 – 13:42 | Emil Cherrington | Implications of Differing Forest Cover Estimates for Conservation & Management, Reporting on the UN's Sustainable Development Goals | 🔗 GC016-04 |
| 19:00 – 20:00 | Nancy Searby | Virtual Communication & Capacity-Building Activities in Support of International Scientific Collaboration II | 🔗 SY008 |
| 19:24 – 19:27 | Amanda Clayton | Conducting Feasibility Studies in a Virtual World: Lessons Learned & Emerging Best Practices from DEVELOP | 🔗 SY008-08 |

ORAL SESSIONS & PRESENTATIONS

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|---------------|-----------------------|--|------------|
| 20:30 – 21:30 | Lauren Childs-Gleason | Addressing the Need for Earth Observation Capacity Development at Local, National, Regional, & Global Scales I | 🔗 SY009 |
| 20:34 – 20:38 | Kent Ross | Feasibility Studies as Catalysts for Capacity Building: The DEVELOP Experience from Local to National Scale | 🔗 SY009-01 |
| 21:02 – 21:06 | Robinson Mugo | Use Cases of SERVIR Land Use Cover Data in Eastern & Southern Africa Countries: Research, Policy & Capacity Building Footprint | 🔗 SY009-08 |
| 23:50 – 23:54 | Kristen Dennis | Mapping Wetland & Riparian Areas to Support Rio Grande Cutthroat Trout Habitat Restoration | 🔗 H027-06 |

JOIN US FOR HAPPY HOUR: 18:00-19:00 ET
during AGU's "Virtu-ale Happy Hour". Connection email to be shared separately.

- CBP & GEO
- DEVELOP
- SERVIR
- ARSET

TUESDAY, DECEMBER 8th

POSTER SESSIONS & PRESENTATIONS

| TIME (ET) | SPEAKER | TITLE | SESSION |
|---------------|-----------------|--|--------------|
| 07:00 – 23:59 | Emily Adams | Gender & Social Inclusion in Climate Data Services & Analyses I | ☑ GC027 |
| 07:00 – 23:59 | Marina Irigoyen | Engaging Women & Indigenous Peoples in Geospatial Information on the Amazon Biome. Advances on the State of the Question | ☑ GC027-0004 |
| 07:00 – 23:59 | Ella Griffith | Relating Land Cover Change to Runoff Distribution Using NASA Earth Observation in Riley County, Kansas | ☑ H038-0017 |

ORAL SESSIONS & PRESENTATIONS

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|---------------|----------------|--|------------|
| 20:42 – 20:46 | Alina Schulz | Building a Real-Time Flood Prediction Model for Improving Early Warning Systems in Ellicott City, Maryland | ☑ H047-04 |
| 23:50 – 23:54 | Sean McCartney | ARSET: Building the Skills to Acquire & Use NASA Satellite & Model Data for Decision Support | ☑ IN012-06 |

TOWN HALL

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|---------------|-------------|--|---------|
| 22:00 – 23:00 | Franz Meyer | Capacity Building in the Field of SAR Remote Sensing: Comparing Current Training Resources, Tools, & Services to Community Needs | ☑ TH052 |
|---------------|-------------|--|---------|

WEDNESDAY, DECEMBER 9th

⚡ eLIGHTNING SESSIONS & PRESENTATIONS

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|---------------|------------------|--|------------|
| 10:00 – 10:03 | Dang Thanh Binh | SERVIR Application - Mekong's RDCYIS to Enhance Drought Forecast and Warning Generation in Ninh Thuan Province, Vietnam | ☑ GC045-01 |
| 10:00 – 11:00 | Tim Mayer | Implementing Earth Observations in South & Southeast Asia to Address Environmental Challenges I | ☑ GC045 |
| 10:03 – 10:06 | Caily Schwartz | Developing a Customizable Composite Drought Index for Pakistan | ☑ GC045-02 |
| 10:30 – 10:33 | Helen Baldwin | Estimating Forest Stand Height in Savannakhet, Lao PDR Using InSAR and Backscatter Methods with L-Band SAR Data | ☑ GC045-11 |
| 10:42 – 10:45 | Farrukh Chishtie | Ongoing Development & Adoption of Regional Near Real Time Flood Monitoring Service by SERVIR-Mekong: Challenges, Innovations & Upcoming Deliveries | ☑ GC045-15 |

- CBP & GEO
- DEVELOP
- SERVIR
- ARSET

THURSDAY, DECEMBER 10th

POSTER SESSIONS & PRESENTATIONS

| TIME (ET) | SPEAKER | TITLE | SESSION |
|---------------|----------------|---|-------------|
| 07:00 - 23:59 | Jake Stid | Utilizing Airborne & Space-Based Remote Sensing Imagery to Implement the Unvegetated-Vegetated Ratio to Assess Salt Marsh Vulnerability in South Carolina | 📄 B049-0009 |
| 07:00 - 23:59 | Kristen Dennis | Narrowing the Gap in Environmental Problem Solving: Connecting with Communities Using Emerging Geospatial & Communications Technologies Session II | 📄 SY033 |

⚡ eLIGHTNING SESSIONS & PRESENTATIONS

| | | | |
|---------------|-----------------|--|------------|
| 07:00 - 08:00 | Kristen Dennis | Narrowing the Gap in Environmental Problem Solving: Connecting with Communities Using Emerging Geospatial & Communications Technologies Session I | 📄 SY029 |
| 07:01 - 07:04 | Ani Matevosian | Building Capacity for Policy-makers in a Virtual Setting: Providing Tools to Analyze Wildfire Smoke Plumes & Their Impacts | 📄 SY029-01 |
| 07:04 - 07:07 | Catherine Breen | Building a Bilingual Google Earth Engine Dashboard to Increase Accessibility to Long-term Time Series Remote Sensing for Monitoring Saline System Changes in Chile's Atacama Des | 📄 SY029-02 |

FRIDAY, DECEMBER 11th

POSTER SESSIONS & PRESENTATIONS

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|---------------|----------------|---|---------|
| 07:00 - 23:59 | Madeline Allen | Using NASA Earth Observations to Identify Wildfire Impacts on Hydrologic Functions & Recovery in the Gila National Forest | 📄 SY033 |
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ORAL SESSIONS & PRESENTATIONS

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|---------------|---------------------|---|------------|
| 07:33 - 07:39 | Nicole Ramberg-Pihl | Quantifying Changes in Urban Albedo with NASA Earth Observations to Reduce the Urban Heat Island Effect in Cambridge, Massachusetts | 📄 SY040-05 |
|---------------|---------------------|---|------------|

- CBP & GEO
- DEVELOP
- SERVIR
- ARSET

MONDAY, DECEMBER 14th

TOWN HALL

| TIME (ET) | SPEAKER | TITLE | SESSION |
|---------------|-----------------|--|---------|
| 19:00 – 20:00 | Ashutosh Limaye | SERVIR's Approach to Ensuring Sustainable Services in the Use of Earth Observations in Decision-Making | TH082 |

TUESDAY, DECEMBER 15th

POSTER SESSIONS & PRESENTATIONS

| | | | |
|---------------|-----------------|--|------------|
| 07:00 – 23:59 | Betzy Hernandez | Lessons Learned in Implementing Virtual Capacity Building Activities in Earth Observation to Meet Central American Integration System Environmental Management Needs | GC103-0001 |
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⚡ eLIGHTNING SESSIONS & PRESENTATIONS

| | | | |
|---------------|----------------|---|---------|
| 07:00 – 23:59 | Andrew Shannon | Modeling the Worst-Case-Scenario of Soil Drydown for Agricultural Drought Monitoring in Kansas Using NASA Earth Observations & In-situ Parameters | H178-09 |
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THURSDAY, DECEMBER 17th

ORAL SESSIONS & PRESENTATIONS

| | | | |
|---------------|-----------------|--|----------|
| 07:00 – 08:00 | Lee Ellenburg | Earth Observation Applications to Agriculture & Food Security System Shocks I | GC132 |
| 07:04 – 07:08 | Lilian Ndungu | Responding to Emerging Food Security Needs Using Earth Observation Systems in Kenya | GC132-02 |
| 07:28 – 07:32 | Ashutosh Limaye | The Need for Soil Moisture in Detecting Desert Locust Breeding Grounds: A Satellite Assisted Modeling Approach | GC132-08 |
| 07:32 – 07:36 | Emily Adams | Limitations of Remote Sensing for Assessing Damage Caused by Desert Locusts during the East Africa Upsurge (Invited) | GC132-09 |

- CBP & GEO
- DEVELOP
- SERVIR
- ARSET