

LIST OF PARTICIPATION

APPENDIX: Fall AGU 2020 Meeting (Online)

Session, Paper, and Presentations with CIESIN Staff Participation

CIESIN staff presented or co-authored the following AGU oral, e-lightning, or poster papers, which are available online via the AGU conference site (registration required):

- **Why People Matter: Better Data on Population and Infrastructure to Assess SDG Progress.** Session: GC016. Advances in the Application of Earth Observations to Address the Sustainable Development Goals (SDGs) in a Changing Climate: Understanding the Enabling Environment II eLightning. Presentation Type: eLightning. Day/Time: 67.0 - Oral: Monday, 7 December 2020: 10:54 - 10:57 PST. Authors: **Robert Chen, Alex de Sherbinin**, Andrea Gaughan (Univ. of Louisville), **Linda Pistolesi**, Maryam Rabiee (SDSN), **Gregory Yetman**.
- **Towards Developing Community Guidelines for Sharing and Reuse of Digital Data Quality Information.** Session: IN012. Data and Information Services for Interdisciplinary Research and Applications in Earth Science II. Presentation Type: Oral. Day/Time: 261.0 - Oral: Tuesday, 8 December 2020: 20:42 - 20:46 PST. Authors: Ge Peng (NCSU), Carlo Lacagnina (BSC), **Robert R Downs**, Hampapuram Ramapriyan (SSAI), Ivana Ivanova (Curtin University), David F Moroni (JPL), Gilles Larnicol (BSC), Yaxing Wei (ORNL), Lucy Bastin (Aston University), Nancy A Ritchey (NCDC), Lesley A Wyborn (Australian National Univ), Chung-Lin Shie (GSFC), Ted Habermann (Metadata Game Changers), Anette Ganske (TIB), Sarah M Champion (NCSU), Mingfang Wu (ARDC), Irina Bastrakova (Geoscience Australia), Dave Jones (StormCenter Communications), Gary Berg-Cross (Independent Consultant) and ESIP FAIR-DQI Guidelines Working Group.
- **Disentangling the drivers of regional migration in West Africa: The impact of food (in)security on migration.** Session: GC044 - Environmental Changes and Human Migration: Advances in Modeling and Analysis II. Presentation Type: Paper presentation. Day/Time: Oral: Wednesday, 9 December 2020: 05:50 - 05:54 PST. Authors: Fabien Cottier (Lamont-Doherty Earth Observatory), Elisabeth Ilboudo-Nébié (International Research Institute for Climate and Society), Chandler Ann Morris (Columbia University), Michael Joseph Puma (Center for Climate Systems Research), Richard Seager (Lamont-Doherty Earth Observatory), and **Alex M de Sherbinin**.
- **Advancing Open Data Sharing Across the Earth, Social, and Health Sciences for Pressing Societal Challenges.** Session: SY028 - Data for All: Open Data Sharing and Analytics to Empower Science. Presentation Type: eLightning. Day/Time: 378.0 - Oral: Wednesday, 9 December 2020: 19:01 - 19:04 PST. Authors: **Robert R Downs, Robert S Chen**.
- **A Data Lifecycle Approach to Enabling Use by Capturing Data Provenance and Attribution.** Session: IN016. A Call to Action for FAIR, Reproducible, and Transparent Science: Analytical Code, Workflows, Services, Models, and Conclusions eLightning. Presentation Type: eLightning. Day/Time: 405.0 - Oral: Wednesday, 9 December 2020: 20:30 - 20:33 PST. Author: **Robert R Downs**.
- **Deploying the Google Earth Engine in support of development of Open Critical Infrastructure Exposure for Disaster Forecasting, Mitigation and Response.** Session: NH026 - Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication II eLightning. Date/Time: Friday, 11 December 2020: 16:22 - 16:25 PST. Presentation Type: eLightning. Authors: Paul Amyx (ImageCat), Charles K Huyck (ImageCat), ZhengHui Hu (ImageCat),

Georgiana Esquivias ImageCat), **Robert S Chen**, **Gregory Yetman**, Shubharoop Ghosh (ImageCat) and Ronald T Eguchi (ImageCat).

- **The Global COVID-19 Viewer: A Tool for Assessing National and Subnational Trends and Risk Factors in Coronavirus Spread.** Session: NH026 - Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication II eLightning. Presentation Type: eLightning. Date/Time: Friday, 11 December 2020: 16:25 - 16:28 PST. Authors: **Alex M de Sherbinin**, **Kytt MacManus**, **Susana Beatriz Adamo**, **Al Pinto**, **Jane Mills**, **Sri Vinay**, **Robert S Chen**, **Gregory Yetman**, **Frank Pascuzzi**, and **Mairead Milan**.
- **Leaving No One Off the Map in Practice: How Can Gridded Population Data Help Governments Meet the Sustainable Development Goals?** Session: NH026 - Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication II eLightning. Presentation Type: eLightning. Date/Time: Friday, 11 December 2020: 16:28 - 16:31 PST. Authors: Maryam Rabiee (SDSN), Jessica Espey (SDSN), **Robert S Chen**, and Fredy Rodriguez (CEPEI-Centro de Pensamiento Estratégico Internacional).
- **A Comparison of Gridded Population Data Products in Disaster Response.** Session: NH026 - Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication II eLightning. Presentation Type: eLightning. Date/Time: Friday, 11 December 2020: 16:31 - 16:34 PST. Authors: **Cascade Tuholske**, Andrea E Gaughan (Univ. of Louisville), **Alex M de Sherbinin**, Forrest R. Stevens (Univ. of Louisville), Alessandro Sorichetta (Southampton Univ.), Gregory Yetman, Charles K Huyck (ImageCat) and **Robert S Chen**.
- **Global urban population exposure to extreme heat.** Session: GC089-06-Climate Extremes: Patterns, Mechanisms, and Attribution II. Presentation type: Oral. Date/Time: Monday, 14 December 2020: 05:50 PST. Authors: **Cascade Tuholske**, Kelly K Caylor (University of California-Santa Barbara), Christopher Funk (USGS), Andrew Verdin (University of Minnesota-Twin Cities), Stuart Sweeney (University of California- Santa Barbara), Pete Peterson (University of California-Santa Barbara), Tom Evans (University of Arizona-Tucson), and Kathryn Grace (University of Minnesota-Twin Cities).
- **IPCC Sixth Assessment approaches towards FAIR data and an enhanced data reuse (Invited).** Session: IN044 - Improving Infrastructure for Trustworthy Digital Repositories to Enable Current and Future Use of Open Data in Developed and Developing Countries I. Presentation Type: Oral. Day/Time: Wednesday, 16 December 2020, 7:12 - 7:16 PST. Authors: Martina Stockhause (DKRZ), Alaa Al Khourdajie (Imperial College), Andres Alegria (IPCC), **Robert S Chen**, David B Huard (Ouranos), Martin N Juckes (STFC), Charlotte Louise Pascoe (STFC), Anna Pirani (IPCC), Robin Matthews (IPCC), Elvira Poloczanska (IPCC), Sebastian Vicuna (Centro de Cambio Global UC), **Xiaoshi Xing**, and Özge Yelekçi (IPCC).
- **Developing flood risk maps for multi-level humanitarian decision making.** Session: H216 - Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II. Presentation Type: Oral. Day/Time: Wednesday, 16 December 2020: 20:38 - 20:42 PST. Authors: **Carolynne Hultquist**, Andrew Kruczkiewicz (International Research Institute for Climate and Society), Humberto J Vergara (University of Oklahoma), **Alex M de Sherbinin**, Devon Woods (University of Oklahoma).

CIESIN staff co-chaired the following AGU Sessions:

- CIESIN director **R. Chen** co-chaired the AGU Session SY028 - Data for All: Open Data Sharing and Analytics to Empower Science eLightning, on 9 December with J. Brinks of ISciences, K. Bugbee of NASA Marshall Space Flight Center, and K. Murphy of NASA.
- CIESIN director **R. Chen** co-chaired Session NH026 - Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication II eLightning on 11 December with J. Schmidt of the University of Alaska-Fairbanks and B. Kar of ORNL.
- SY052. Earth Intel: Enhancing Partnerships Between Academic and National Security Communities to Address Ecoscurity Challenges I. Day/Time: Tuesday, 15 December 2020: 08:30 - 09:30 PST. Chairs: T. Parris (ISciences), **R. Chen**.
- NH036. Integrating Remote Sensing Data and Geospatial Analytics for Assessment of Hazards, Risk and Resilience of Communities and Infrastructures, and Risk Communication I. Day/Time: Tuesday, 15 December 2020: 20:30 - 21:30 PST. Chairs: **R. Chen**, B. Kar (Univ. of Southern Mississippi).
- IN044. Improving Infrastructure for Trustworthy Digital Repositories to Enable Current and Future Use of Open Data in Developed and Developing Countries I. Day/Time: Wednesday, 16 December 2020, 7:00 - 8:00 PST. Chairs: P. Bartel (AGRHYMET), R. Edmunds (WDS), **A. de Sherbinin**, **R. Downs**.
- IN045. Improving Infrastructure for Trustworthy Digital Repositories to Enable Current and Future Use of Open Data in Developed and Developing Countries II. Day/Time: Wednesday, 16 December 2020, 8:30 - 9:30 PST. Chairs: **A. de Sherbinin**, R. Edmunds (WDS), H. Ramapriyan, **R. Downs**.
- IN046. Improving Infrastructure for Trustworthy Digital Repositories to Enable Current and Future Use of Open Data in Developed and Developing Countries III eLightning. Day/Time: Wednesday, 16 December 2020, 11:30 - 12:30 PST. Chairs: **A. de Sherbinin**, R. Edmunds (WDS), H. Ramapriyan, **R. Downs**.