

**LCLUC Program Science Team Meeting
North Bethesda Marriott Conference Center
Mar 24-26, 2024**

March 24 (Mon)

9:00 – 9:10 Welcome and Logistics – Chris Justice (UMD)

Program Update

9:10 – 10:00 Program Overview and Update – Garik Gutman (NASA HQ)

LCLUC Research-to-Actions Presentations

Agriculture

10:00 – 10:20 War Impacts on Agriculture (Sergii Skakun, U. Maryland, College Park)

10:20 – 10:40 Policy, Market, and Climate Change Impacts on Agriculture in Mexico
(Meha Jain, U. of Michigan)

10:40 – 11:00 Break (20 mins)

Conflicts, Narco-trafficking and Peacebuilding

11:00 – 11:20 Land Degradation Caused by Narco-Trafficking in Central America
(Nick Magliocca, U. Alabama, Tuscaloosa)

11:20 – 11:40 Land-use changes and peacebuilding in Colombia - (McKenzie Johnson,
U. Illinois at UC)

Wildland Urban Interface (WUI)

11:40 – 12:00 Urbanization Past and Future WUI Trends (Karen Seto, Yale U.)

12:00 – 12:20 WUI Impacts on Communities (Volker Radeloff, U. Wisconsin, Madison)

Group Photo (12.20- 12.30)

Lunch 12:30 – 1:30 (1 hour)

Land Use and Migration

1:30 – 1:50 Croplands and Outmigration in Central America (Nicholas Cuba, Auburn U.)

1:50 – 2:10 Interactions between Rural Outmigration, Land Degradation and Land Use (Qiongui Huang, Smithsonian Inst.)

Land Use, Heat Stress and Human Health

2:10 – 2:30 Urban Land Cover for Improving Predictions of Human Heat Exposures (Michael Wimberly, U. Oklahoma, Norman)

2:30 – 2:50 Heat Stress and Women's Health (Nina Brooks, Boston U.)

2:50 – 3:10 Emerging Extreme Heat in Rapidly Growing Indian Cities (Glynn Hulley, JPL)

Response from NASA Earth Science R&A Lead

3:10 – 3:30 Earth Science Research & Analysis (Jack Kaye, NASA HQ)

3:30 – 3:50 Break

Response from NASA Earth Action Lead

3:50 – 4:10 Earth Action (Tom Wagner, NASA HQ)

4:10 – 4:20 R&A and EA Q&A

4:20 – 4:30 ESTO-LCLUC Collaboration - Jacqueline Le Moigne (NASA, HQ)

Rapid Presentations

4:30 – 5:30 Introduction to New Selected Projects (ppt prepared): LCLUC-24 Land-use + Weather Forecast and Climate Models towards Digital Twins

5:30 – 7:00 Laptop PPT Session and Reception

Adjourn

March 25 (Tue)

Data Sources

9:00 – 9:20 NASA Commercial Science Data Acquisitions – Melissa Martin (NASA HQ/CSDA)

9:20 – 9:40 NASA SEDAC LCLUC-related products - Alex de Sherbinin (SEDAC, Columbia U.)

9:40 – 10:00 Q&A

Field Campaign Planning

10:00 – 10:10 Status of PANGEA– Elsa Ordway (UCLA)

10:10 – 10:20 Status of ARID - Andrew Feldman (GSFC)

10:20 – 10:40 Terrestrial Ecology Program Plans - Ryan Pavlick (NASA HQ)

10:40 – 11:00 Break (20 mins)

New Missions

11:00 – 11:15 Status of NISAR Mission - Gerald Bawden (NASA HQ)

11:15 – 11:30 Status of Landsat Next Mission - Bruce Cook (GSFC)/Mike Egan (HQ)

11:30 – 11:45 Status of Surface Biology & Geology Mission (Woody Turner, NASA HQ)

11:45 – 12:00 Q & A

GOFC-GOLD Program

12:00 – 12:10 GOFC-GOLD Program Status – Chris Justice (UMD)

12:10 – 12:20 GOFC-GOLD Regional Networks Status – Krishna Vadrevu (MSFC)

12:20 – 12:30 Q & A

Lunch 12:30-2:00 (1:30 hour)

Latin America Activities

2:00 – 2:20 LCLUC LatAm (Gillian Galford, U. Vermont)

2:20 – 2:40 SERVIR in Latin America (Nancy Searby, HQ)

South/Southeast Asia Research Initiative (SARI)

2:40 – 3:00 SARI Synthesis Status – Krishna Vadrevu (NASA MSFC)

Earth Action Agriculture

3:00 – 3:20 Points of Collaboration with LCLUC - Brad Doorn (HQ)

3:20 – 3:30 Q & A

3:30 – 4:30 FINNEST and ECR (formerly NIP) Projects Rapid Presentations Followed by Refreshments and Laptop ppt Presentations

4:30 Adjourn

Mar 26 (Wed)

Coastal Zone LCLUC IDS Projects

9:00 – 9:15 Dams disruptions and effects in coastal zone. (Kyra Adams, NASA JPL)

9:15 – 9:30 Integrated Remote Sensing and Modeling in Mississippi River Basin (Charles Vorosmarty, City University of NY)

9:30 – 9:45 Watersheds, Water Quality, and Coastal Communities in Puerto Rico (Juan Torres-Perez, NASA Ames Research Center)

9:45 – 10:00 Landsat Aquatic Activities (Nima Pahlevan, NASA HQ)

Earth Action Disasters

10:00 – 10:15 Points of Collaboration with LCLUC - Shanna McClain (NASA HQ)

10:15 – 10:30 Break

10:30 – 10:45 Dynamics and Hazard Assessment at Wildland Urban Interface (Yufang Jin, UC Davis)

10:45 – 11:00 Pre- and Post- Wildfire Analysis (Nimrod Carmon, JPL)

11:00 – 11:15 Droughts and Forest Mortality (Jonathan Wang, U. Utah, Salt Lake City)

11:15 – 11:30 Q & A

Summary and Conclusions

11:30 – 12:00 Discussion: Emerging Science Directions for LCLUC (Moderator: Chris Justice, UMD)

12:00 – 12:15 Closing remarks (Garik Gutman, NASA HQ)

Adjourn