

NASA LCLUC Science Team Meeting, Spring 2020

Meeting Venue

Hyatt Regency Bethesda, One Bethesda Metro Center (7400 Wisconsin Ave)
Bethesda, Maryland, United States, 20814, mybethesdstay@hyatt.com , +1 301 657 1234

Meeting Date

03/31/2020 to 04/02/2020

Meeting Focus

This LCLUC 2020 Science Team Meeting consists of All-Hands SARI Sessions (Presentations from Regional Programmatic Partners and P.I.'s funded as part of the SARI Program will be followed by a discussion on needs and opportunities for SARI Synthesis) and LCLUC Data Sessions (including presentations from ongoing data initiatives and P.I.'s funded under the MuSLI and VHR Projects). The meeting also includes posters of recent results from other ongoing research in LCLUC-relevant projects under other programs, such as Inter-Disciplinary Science, Carbon Cycle, Students Fellowships and New Investigator Programs.

DAY 1 (31 March, TUESDAY)

Session I: Introductory Session

9:00-9:40	Welcome Address and LCLUC Program Update	Garik Gutman (NASA HQ)
9:40-9:50	Meeting Objectives and Agenda	Chris Justice (U. MD)

Session II: Invited Talks

9:50-10:20	NASA Earth Science Update & the Role of the LCLUC Program	Jack Kaye (NASA HQ) Q & A
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10:20-10:45 Break

10:45-11:00	Invited Regional Keynote 1. Overview	TBD (ISRO, India)
11:00-11:15	Invited Regional Keynote 2. Overview	TBD (GISTDA, Thailand)
11.15-11.30	Invited Regional Keynote 3. Overview	TBD (JAXA, Japan)
11.30-11.45	Invited Regional Keynote 4. Overview	TBD (VNSC, Vietnam)
11:45-12:20	Overview of the SARI Program	Krishna Vadrevu (NASA MSFC)

12:20-12:30 Group Picture

12:30-1:30 Lunch

1:30-4:30 Session III: LCLUC in South Asia

1:30-1:45	The Future of Food Security in India: Can Farmers Adapt to Environmental Change?	Meha Jain (U. Michigan)
1:45-2:00	Understanding Changes in Agricultural Land Use and Land Cover in the Breadbasket Area of	Liping Di (George Mason U.)

	the Ganges Basin 2000-2015: A Socioeconomic-Ecological Analysis	
2:00-2:15	Landscapes In Flux: The Influence of Demographic Change and Institutional Mechanisms on Land Cover Change, Climate Adaptability and Food Security in Rural India	Aditya Singh (U. Florida)
2:15-2:30	Spatiotemporal Drivers of Fine-Scale Forest Plantation Establishment in Village Based Economies of Andhra Pradesh	Randy Wynne (Virginia Tech)
2:30-2:45	Impacts of Afforestation on Sustainable Livelihoods in Rural Communities in India	Forest Fleischman (U. Minnesota)
2:45-3:00	Complex Forest Landscapes and Sociopolitical Drivers of Deforestation - The Interplay of Land-use Policies, Armed Conflict, and Human Displacement in Myanmar	Peter Leimgruber (Smithsonian Inst.)

3.00 – 3.30 Break

3:30-3:45	Consequences of Changing Mangrove Forests in South Asia on the Provision of Global Ecosystem Goods and Services	Vincent (Duke U.)
3:45-4:00	Tropical Deciduous Forests of South Asia: Monitoring Degradation and Assessing Impacts of Urbanization	Ruth De Fries (Columbia U.)
4:00-4.15	Urban Growth, Land-Use Change, and Growing Vulnerability in the Greater Himalaya Mountain Range Across India, Nepal, and Bhutan	Karen Seto (Yale U.)
4.15-4:30	Understanding the Role of Land Cover/Land Use Nexus in Malaria Transmission Under Changing Socio-Economic Climate in Myanmar	Tatiana Loboda (U. MD)

Session IV: Poster session

4:30-5:30	Rapid (2-minute) Introduction to Posters (LCLUC-18 SARI projects, Student, NIP, IDS – all on SARI domain only) non-SARI posters are welcome but without rapid presentations
5:30-7:00	Poster viewing and reception

7:00 Adjourn

DAY 2 (1 APRIL, WEDNESDAY)

Session V: LCLUC in Southeast Asia

8:30-8:45	Assessing the Impacts of Dams on the Dynamic Interactions Among Distant Wetlands, Land Use, and Rural Communities in the Lower Mekong River Basin	Jiaguo Qi (Michigan State U.)
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8:45-9:00	A Cobra in the Forest? Quantifying the Impact of Perverse Incentives from Indonesia's Deforestation Moratorium, 2011 to 2016	Matt Hansen (U. MD)
9:00-9:15	Land Use Status, Change and Impacts in Vietnam, Cambodia and Laos	Son Nghiem (JPL)
9:15-9:30	Land-Cover/Land-Use Change in Southern Vietnam Through the Lenses of Conflict, Religion, and Politics, 1980s to Present	Jessica McCarty (Miami U., Ohio)
9:30-9:45	Agricultural Land Use Change in Central and Northeast Thailand: Effects on Biomass Emissions, Soil Quality, and Rural Livelihoods	Prasad Bandaru (U. MD)
9:45-10:00	The Agrarian Transition in Mainland Southeast Asia: Changes in Rice Farming - 1995 to 2018	Jeff Fox (East-West Center, Hawaii)

10:00-10:30 Break

10:30-10:45	Tentative title: "Mangrove structure and status in South East Asia	Marc Simard (JPL)
10:45-11:00	Optimizing oil palm plantation mapping with Synthetic Aperture Radar: an example from Sabah, Malaysia	Naiara Pinto (JPL)

Session VI: SARI International Linkages and Capacity Building

11:00-11:15	SARI-SERVIR interactions in Southeast Asia	Krishna Vadrevu (NASA MSFC) and Nancy Searby (NASA HQ)
11:15-11:30	SARI activities in Malaysia	Kasturi Kanniah (U. Technology, Malaysia)
11:30-11:45	Interactions of SARI with relevant activities in Thailand	TBD
11:45-12:00	SARI activities in Indonesia	TBD

12:00-1:00 Lunch

1:00-1:15	Activities in Myanmar	TBD
1:15-1:30	Activities in Cambodia /Laos	TBD
1:30-1:45	Activities in Nepal	TBD
1:45-3:30	SARI Research Gaps and SARI Synthesis: presentation and discussion	Krishna Vadrevu (NASA MSFC)

3:30 Adjourn

DAY 3 (2 APRIL, THURSDAY)

9:00-9:20	Status of the Landsat Program	Jeff Masek (NASA GSFC)
9:20 -9:40	MuSLI research summary and HLS status	Jeff Masek (NASA GSFC)
9:40-10:00	VHR research summary	Krishna Vadrevu (NASA MSFC)

Session VII: LCLUC Data Session

MuSLI + VHR

10:00-10:20	Africa Burned Area Product Generation, Quality Assessment and Validation - Demonstrating a Multi-Source Land Imaging (MuSLI) Landsat-8 Sentinel-2 Capability	David Roy (Michigan State U.)
10:20-10:40	Crop Yield Assessment and Mapping by a Combined use of Landsat, Sentinel 2 and Sentinel 1 images	Sergii Skakun (U. MD)
10:40-11:00	Canopy Chlorophyll Content for Assessing Vegetation Function and Productivity - Petya Campbell	Petya Campbell (UMBC/NASA)

11:00-11.20 Break

MuSLI

11:20–11:35	Characterizing Field-Scale Water Use, Phenology in Agricultural Landscapes	Martha Anderson (USDA)
11:35-11:50	Progress on Moving from Prototyping Multi-Source Land Imaging of Circumpolar Albedo to Production	Crystal Schaaf (U. Mass)
11:50-12:05	Progress on Moving Multi-Source Land Imaging of Seasonal Dynamics in Land Surface to Production (Type 1)	Mark Friedl (Boston U.)

12:05-1:30 Lunch

1:30-1:45	Monitoring Abandoned Agriculture, Fallow Fields and Grasslands.	Volker Radeloff (U. Wisconsin)
1:45-2:00	A High Spatio-temporal Resolution Land Surface Temperature Product for Urban Environments.	Glynn Hulley (JPL)

VHR

2:00- 2:15	Evaluation of High Resolution Data for LCLUC Science	Steve Walsh (U. North Carolina)
2:15- 2:30	Evaluation of High Resolution Data for LCLUC Science	Jessica McCarty (Miami U., Ohio)

2:30-2:45	Evaluation of High Resolution Data for LCLUC Science	Matt Hansen (U. MD)
2:45-3:15	Summary of the research and discussion on future directions	(moderator Chris Justice, U. MD)

3:15-3:45 Break

Session VIII. Meeting Wrap-Up

3:45-4:00	Project Scientist Perspective	Chris Justice (U. MD)
4:00-4:30	Concluding Remarks	Garik Gutman (NASA HQ)

4:30 Adjourn

Lodging, Parking & Transportation

Hotel Reservations

All attendees must make room reservations, cancellations, and substitutions through Globetrotter Travel Management. You may contact Globetrotter Monday-Friday 9:00am to 5:30pm EST at (800)-322-7032, please select option 2 to speak with an agent. Reference the LCLUC Spring ST Meeting room block to ensure you receive our special rate. Please do not book rooms through the hotel directly.

Parking

Attendees wishing to park at The Hyatt will incur the rates below:

- \$24 self parking overnight
- \$12 all day self parking
- \$34 valet overnight
- \$20 valet day parking

Alternative parking can be found at the nearby Francis G. Newlands Bldg Parking Garage located at 2 and 3 Bethesda Metro Ctr, Bethesda 20814

- 1 hr: \$4
- 2 hr: \$8
- 3 hr: \$12
- Daily Max: \$12
- Weekend: \$4

Metro Access

The Hyatt is conveniently located on the Red Line, 1 minute walking distance from the Bethesda Station stop.