

# International Meeting on Land Use and Emissions in South/Southeast Asia - Ho Chi Minh City, Vietnam, October 17-19<sup>th</sup>, 2016

## AGENDA

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### DAY 1 (17<sup>TH</sup> OCTOBER, MONDAY)

#### 9:00-10:00 Introduction Session

- 9:00 Welcome Address – Phan Thanh Bin (President, Vietnam National University)
- 9:20 Welcome Remarks – Vu Dinh Thanh (Rector, Ho Chi Minh University of Technology)
- 9:25 Welcome Remarks – Nguyen Phuoc Dan (Dean, Ho Chi Minh University of Technology)
- 9:30 Welcome Remarks and Meeting Objectives – Chris Justice (U. Maryland College Park, USA)
- 9:45 Welcome Remarks – Toshimasa Ohara (NIES, Japan)
- 9:50 Welcome Remarks, South/Southeast Asia Research Initiative (SARI) Update - Krishna Vadrevu (NASA MSFC, USA)

#### 10:00-12:05 Technical Session-I: Regional Programs and Science Initiatives Chair: George Lin (National Central University, Taiwan)

#### Keynote Presentation (20-min Presentation; 5-min Discussion)

- 10:00 Remote Sensing Research Activities and Applications – Doan Minh Chung (Space Technology Institute, VN Academy of Science and Technology (VAST), Vietnam)

10:25-10:35

*Group Picture*

10:35-11:05

*Tea Break*

#### Technical Presentations (15-min Presentation; 5-min discussion)

- 11:05 An Overview on Seven South East Asian Studies (7-SEAS) Springtime Activities and Future Development - George Lin (National Central University, Taiwan)
- 11:25 NASA SERVIR – Ashutosh Limaye (NASA MSFC, USA)
- 11:45 One MapMyanmar Project and Updates - Myat Su Mon - (Ministry of Natural Resources and Environmental Conservation, Myanmar)

12:05-1:25

*Lunch*

**1:25 – 4:30 Technical Session – II. Agricultural Land Use and Emissions**

Chair: **Chris Justice (UMd, USA)**

**Keynote Presentations (20-min Presentation; 5-min Discussion)**

- 1:25 University of Maryland GEOGLAM Activities - Chris Justice (University of Maryland College Park, US)
- 1:50 GEOGLAM-Rice mapping and monitoring using Sentinel-1 data - Thuy Le Toan, Alexandre Bouvet and Phan Thi Hoa (CESBIO, France)

**Technical Presentations (15-min Presentation; 5-min discussion)**

- 2:15 Asia Rice Crop Team Activity in GEOGLAM – Kei Oyoshi (EORC, JAXA, Japan)
- 2:35 GEOGLAM Joint Experiments for Crop Assessment and Monitoring (JECAM): Recent Progress With Optical and SAR Inter-Comparison Studies – Ian Jarvis (Agriculture and Agri-Food, Canada)
- 2:55 Global Food Security Support Analysis Data @ 30-m using Landsat Time-series, Google Earth Engine (GEE) Cloud Computing and Automated Machine Learning Algorithms – Thenkabail Prasad (USGS, Flagstaff, Arizona)

3:15-3:50

*Tea Break*

- 3:50 Integrating Landsat, PALSAR-2 and Sentinel-1 Data with DNDC for Regional Rice Methane Inventories - William Salas (Applied Geosolutions, USA)
- 4:10 Decades of Changes On Ganges-Brahmaputra Delta – Agriculture, Aquaculture and Mangroves – Christopher Small (Columbia University, USA)
- 4:30 Land Use Change and Rice Crop Monitoring In The Mekong Delta, Vietnam - Nguyen Lam Dao (Vietnam Southern Satellite Technology Application Center, Vietnam)
- 4:40 Poster Introductions (3-minute overviews)
- 5:00 Poster viewing followed by Adjourn

**7:00 Welcome Reception**

**DAY 2 (18TH OCTOBER, TUESDAY)**

<b>9:20 – 12:00</b> <b>Technical Session – III. Inventories, Monitoring and Modeling of GHG's and Air Pollution</b> Chair: <b>Toshimasa Ohara (NIES, Japan)</b>
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**Keynote Presentation (20-min Presentation; 5-min Discussion)**

9:20 Atmospheric Pollution Monitoring Using GOSAT-1 and GOSAT-2 Data -Tsuneo Matsunaga (NIES, Japan)

**Technical Presentations (15-min Presentation; 5-min discussion)**

9:45 S-12 project and Regional Emission Inventory in Asia (REAS) – Toshimasa Ohara (NIES, Japan)

10:05-10:40

*Tea Break*

10:40 GHG Emission Inventory of Can Tho City, Mekong Delta, Vietnam – Ho Quoc Bang (Vietnam National University, Ho Chi Minh City, Vietnam)

11:00 Updated Emission Inventories from Industrial Sector in Thailand for 2013 – Narisara Thongboonchoo (King Mongkut's Institute of Technology, Thailand)

11:20 Top-Down Emissions Inventory Development For Fine-Resolution Simulation in East-Asia  
Nicky Lam (City University of Hong Kong, Hong Kong)

11:40 Emission Scenarios and Reductions in the Developing Countries – Tatsuya Hanaoka (NIES, Japan)

12:00-1:00

<b>1:00-3:25</b> <b>Technical Session - IV. Vegetation Fires, Emissions and Aerosols</b> Chair: <b>Krishna Vadrevu (UMd, USA)</b>
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*Lunch*

**Keynote Presentation (20-min Presentation; 5-min Discussion)**

1:00 Fires, Flares and Lights: Mapping Anthropogenic Emission Sources with Nighttime Low-light Imaging Satellite Data – Chris Elvidge (NOAA, USA)

**Technical Presentations (15-min Presentation; 5-min discussion)**

1:25 Recent Biomass Burning Events and Aerosol Properties in South/Southeast Asia  
– Krishna Vadrevu (NASA MSFC, USA)

1:45 Using Multiple Remotely Sensed Platforms and Models to Identify and Quantify The Magnitude and Source of Missing Smoke from Southeast Asian Fires – Jason Cohen (Sun Yat-Sen University, China)

2:05 Major Air Pollution Event in Mega Rice Project (MRP) Area, Indonesia During The Super Elnino Event – Hiroshi Hayasaka (Hokkaido University, Japan)

2:25 Using Satellite Data For Improving PM10 Model Outputs – A Test Case Over Chiang-Mai City – Ronald Macatangay (National Astronomical Research Institute, Thailand)

2:45 A Generic Method For Retrieval Of Aerosol Over Land From Passive Optical Remote Sensing Data – Eric Vermote (NASA GSFC, USA)

3:05 Development Of A Global Atmospheric Aerosol Model with 10km Grid Spacing – Daisuke Goto (NIES, Japan)

3:25-4:00

*Tea Break and Adjourn*

7:00 *Welcome Dinner*

**DAY 3 (19TH OCTOBER, WEDNESDAY)**

<b>9:20-2:20</b>	<b>Technical Session - V. Forests and LCLUC</b> Chair: <b>Thuy LeToan (CESBIO, France)</b>
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**Keynote Presentation (20-min Presentation; 5-min Discussion)**

9:20 The Key Problems Relating To Remote Sensing Applications For Sustainable Development Of The Mekong Delta Region – Le Van Trung (HCMC University of Technology, Vietnam)

**Technical Presentations (15-min Presentation; 5-min discussion)**

- 9:45 Recent Advances in Observations of Land Cover and Land Use Change and Impacts from Multi-Sourced Data – Son Nghiem (NASA, JPL) and Christopher Small (Columbia University, USA)
- 10:05 Climate Change Affecting Land Use in the Mekong Delta – Adaptation of Rice Based Cropping Systems – Nguyen Hieu Trung (Can Tho University, Vietnam)
- 10:25
- Tea Break*
- 11:00 Land Cover/Land Use Change Dynamics and Impacts on Carbon and Nitrogen Emissions in South/Southeast Asia – Atul Jain (University of Illinois at Urbana Champaign, USA)
- 11:20 National Forest Assessment and Monitoring Using the Landsat Data Archive – Peter Potapov and Jeff Pickering (University of Maryland College Park, USA)
- 11:40 What Is Beyond the Land Cover Changes – Land Use Change Pattern Analysis in North Vietnam – Pham Van Cu (Hanoi University of Science, Vietnam)
- 12:00 Development of a Regional Land Cover Monitoring System in the Lower Mekong Region, a Joint Effort Between SERVIR-Mekong and Partners – Aekkapol Aekakkararungroj (Asian Disaster Preparedness Center, Thailand)
- 12:20-1:45
- Lunch*
- 1:40 Monitoring Land Cover Change in the Upper Part of Dong Nai Basin Using Remote Sensing and GIS – Vo Le Phu (HCMC University of Technology, Vietnam)
- 2:05 Evaluation of Different Cloud Computing Resources For Large Scale Satellite Data Processing – Potentials and Limitations - Tuong-Thuy Vu (University of Nottingham, Malaysia Campus)

<b>2:25-3:25</b>	<b>Technical Session - VI. Urban LCLUC</b> Chair: <b>Soe Myint (Arizona State University, USA)</b>
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2:2

- 5 An Examination of the impacts of Urbanization on the Environment: Experiences from current and former capitals of Myanmar – Soe Myint (Arizona State University, USA)
- 2:45 Urban Transformation And Environmental Changes Of Transitional Economies: Hanoi After Doimoi (1986- 2015) – Peilei Fan (Michigan State University, USA)
- 3:05 Urbanization in South Vietnam and Emissions – Pham Bach Viet (HCMC Institute of Resource Geography, Vietnam)

3:25 - 4:00

*Tea Break*

<b>4:00-5:30</b>	<b>Discussion Session VII: Regional Science Summary, Research and Capacity Building Priorities</b> Chair: <b>Chris Justice</b> ; Rapporteur: <b>Krishna Vadrevu</b>
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5:30 Vote of Thanks

5:45 Adjourn

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