









International Workshop on Land Use/Cover Changes and Air Pollution in Asia

August 4-7th, 2015, Bogor, Indonesia

(2nd Floor, IPB, International Convention Center, Ball Room III)

AGENDA

DAY 1 (4TH AUGUST, TUESDAY)

9:	20-10:10	Introduction Session
9:20) Welco	me Address – Herry Suhardiyanto – Rector (Bogor Agricultural University, Indonesia)
9:35	5 Keyno	te Address – Siti Nurbaya Bakar (Minister of Environment and Forestry, Indonesia)
9:50) Welco	me remarks –Bambang Saharjo (Local host, Bogor Agricultural University, Indonesia)
9:55	5 Welco	me remarks – Chris Justice (U. of Maryland College Park, USA)
10:0)5 Welco	me remarks – Toshimasa Ohara (NIES, Japan)
10:1	.0 Meeti	ng Objectives – Krishna Vadrevu (U.of Maryland College Park, USA)

Keynote Presentation

10:25 The NASA LCLUC science: Focus on Southeast Asia – Garik Gutman (NASA HQ and GOFC GOLD Program)

10:55-11:00

Group Picture

11:00-11:25

Tea Break

11:25-12:45 Technical Session-I: Regional & National Science Initiatives
Chair: Garik Gutman (NASA HQ, USA)

Technical Presentations

11:25 7-South-East Asian Studies (SEAS) Campaign – George Lin and Tang Huang Lin (National Central University, Taiwan)

- 11:45 Indonesian National Institute and Aeronautics and Space (LAPAN) remote sensing activities in Indonesia Rokhis Khomaruddin (LAPAN, Indonesia)
- 12:05 Remote sensing activities in Vietnam and VNREDSAT-1 satellite characteristics for disaster management in Asia Nguyen Minh Ngoc (Space Technology Institute, Vietnam)
- 12:25 Asia Pacific Network (APN) for Global Change Research Twenty years of collaborative research/capacity building on LC/LUC and GHG emissions- Erna Adiningsih (LAPAN, Indonesia)

12:45-1:45

Lunch

1:45 – 5:05 Technical Session – II. Land Cover/Land Use Change, Forests and GHG emissions Chair: Chris Justice (UMd, USA)

Keynote Presentation

1:45 Effects of oil palm expansion on land use, carbon emissions and livelihoods in Kalimantan, Indonesia – Lisa Curran (Stanford University, USA)

Technical Presentations

- 2:15 The significance of Indonesian peat swamp and mangrove forests losses in the emission reduction targets Daniel Murdiyarso (Center for International Forestry Research, Indonesia)
- 2:35 Annual deforestation mapping in Sumatera 1990-2012 using multi-temporal digital classification Kustiyo (LAPAN, Indonesia)
- 2:55 Forest management and livelihood connections in Southeast Asia Christine Padoch (Center for International Forestry Research, Indonesia)
- 3:15 Remote sensing of land cover changes in Southern Vietnam Bach Viet Pham (Vietnam National University-Ho Chi Minh City, Vietnam)

3:35 - 4:05

Tea Break

- 4:05 Enhanced approaches to estimate net emission reductions from deforestation and degradation of undrained peat swamp forests in Central Kalimantan Wayan Susi Dharmawan (Ministry of Environment and Forestry, Indonesia)
- 4:25 Land cover and Land use changes and impacts on Carbon cycling in South and South East Asia Atul Jain (University of Illinois Urbana Champaign, USA)
- 4:45 National mapping for REDD+ in Laos Tricks and tips" Jeffrey Himel (Aruna Technologies, Lao PDR)

5:05 – 5:30 Poster Introductions (1-minute overviews)

5:30-6:05

Poster Session

7:00 Welcome Reception

Day 2 (5th August, Wednesday)

9:20 – 2:20 Technical Session – III. Inventories, Monitoring and Modeling of GHG's and Air Pollution
Chair: Toshimasa Ohara (NIES, Japan)

Keynote Presentation

9:20 Atmospheric pollution monitoring using GOSAT-1 and GOSAT-2- Tsuneo Matsunaga (NIES, Japan)

Technical Presentations

9:50 S-12 project and Regional Emission Inventory in Asia (REAS) – Toshimasa Ohara (NIES, Japan)

10:10-10:40

Tea Break

- 10:40 Global Atmospheric Watch (GAW) activities and air quality monitoring in Indonesia Dodo Gunawan (Agency for Meteorology, Climatology and Geophysics, Indonesia)
- 11:00 Air pollution management system in Vietnam Nguyen Thi Nhat Thanh (VNU-ET, Vietnam)
- 11:20 Characteristics of inorganic particulate matter in Peninsular Malaysia Mastura Mahmud (University Kebangsaan, Malaysia)
- 11:40 The impact of land use/cover change on greenhouse gas emissions in terrestrial ecosystems of tropical Asia Haruo Tsuruta (Remote sensing technology center for Japan (RESTEC), Japan)

12:00-1:00

Lunch

1:00 GHG emissions from land use change and forestry sector in Myanmar – Cho Cho Win (Forest Research Institute, Myanmar)

- 1:20 CH₄ emissions inventory in India using GOSAT data Sachiko Hayashida (Nara Women's University, Japan)
- 1:40 Recent and future emission scenarios for emerging renewable biomass and conventional fossil fuel based energy in India Saroj Sahu (NIES, Japan)
- 2:00 GHG and SLCP emissions projections in Asia and Intended Nationally Determined contributions (INDC's) Tatsuya Hanaoka (NIES, Japan)

2:20-5:20 Technical Session - IV. Vegetation Fires and Biomass Burning Emissions
Chair: Krishna Vadrevu (UMd, USA)

Keynote Presentation

2:20 History and latest updates on the satellite remote sensing of fires – Chris Justice (UMd, USA)

Technical Presentations

2:50 Exploring spectral differences in radiant emissions of flaming and smoldering biomass burning – Chris Elvidge (NOAA, USA)

3:10-3:40

Tea Break

- 3:40 Vegetation fires and smoke plume characteristics in Asia–Krishna Vadrevu (UMd, USA)
- 4:00 Indonesian Riau's smoke sources and mitigation Bambang Saharjo (Bogor Agricultural University, Indonesia)
- 4:20 Major atmospheric emissions from peat fires in Southeast Asia during non-drought years: evidence from the 2012-13 Sumatran fires David Gaveau (CIFOR, Indonesia)
- 4:40 Haze and El Nino in Indonesia Hiroshi Hayasaka (Hokkaido University, Japan)
- 5:00 Emission inventories of air pollutatns from biomass burning open burning in Agriculture and forest areas of Thailand Narisara Thongboonchoo (King Mongkut's Institute of Technology, Thailand)

5:20-6:05

Poster Session

7:00 Banquet Dinner

Day 3 (6th August, Thursday)

9:20-12:00	Technical Session - IV. Vegetation Fires and Biomass Burning Emissions
	(continues)
	Chair: Chris Elvidge (NOAA, USA)

Keynote Presentation

9:20 Pro's and Con's of using remote sensing in fire research - Emilio Chuvieco (University of Alcala, Spain)

Technical Presentations

9:50 Impact of vegetation and peat fires on air quality and human health in Southeast Asia – Carly Reddington (University of Leeds, UK)

10:10-10:40

Tea Break

- 10:40 Carbon emissions from the peat swamp forest fires of the ex-Mega Rice Project in Kalimantan Mark Cochrane (South Dakota State University, USA).
- 11:00 Laboratory study of haze in tropical Asia Mikinori Kuwata (Nanyang Technological University, Singapore)
- 11:20 Topology analysis of land and forest fire in Riau Province Israr Albar (Bogor Agricultural University, Indonesia).
- 11:40 Satellite based early warning system to detect peatland fires in Central Kalimantan Nina Yulianti (University of PalangkaRaya, Indonesia)

12:00-1:00

Lunch

1:00-5:20	Technical Session V. Aerosols and Radiation
	Chair: Eric Vermote (NASA Goddard, USA)

Keynote Presentation

1:00 Satellite remote sensing of Aerosols – Eric Vermote (NASA Goddard, USA)

Technical Presentations

- 1:30 Global aerosol characterization using AERONET data David Giles (NASA Goddard, USA)
- 1:50 A review of remote sensing applications for investigating aerosol properties in Malaysia Kasturi Kanniah (University Technology, Malaysia)
- 2:10 Remote sensing of aerosol type and the potential weight of mixing component Tang-Huang Lin (National Central University, Taiwan)
- 2:30 Ground-based monitoring of aerosol optical properties and surface radiation budget Akihiro Uchiyama (NIES, Japan)
- 2:50 Evaluation of satellite and reanalysis products of downward surface solar radiation over East Asia Binghao Jia (Institute of Atmospheric Physics, China)

3:10 Aerosol study from Jambi Forest fire – Edvin Aldrian (Indonesia Agency for Meteorology, Climatology and Geophysics, Indonesia)

3:30-4:00

Tea Break

- 4:00 An analysis of aerosol optical properties during seasonal monsoon circulation Lim Hwee San (University Sains, Malaysia)
- 4:20 Inferring particulate matter sources using a Backward-Time Stochastic Lagrangian air quality odel at selected sites in Luzon, Philippines Patricia Erika Lim (University of Phillippines)
- 4:40 PM2.5 carbonaceous species and BC emitted from peat land burning in Riau, Sumatera-Puji Lestari (Institute of Technology, Bundung, Indonesia)
- 5:00 Assessment of sulfate aerosols and uncertainity due to clouds using global models Daisuke Goto (NIES, Japan)

5:20-6:00 Discussion: Regional Science Summary and South East Asia Regional Information Network (SEARRIN) – Research Priorities
Chair: Chris Justice; Rapporteur: Krishna Vadrevu
