

# Wrap-up Final Remarks

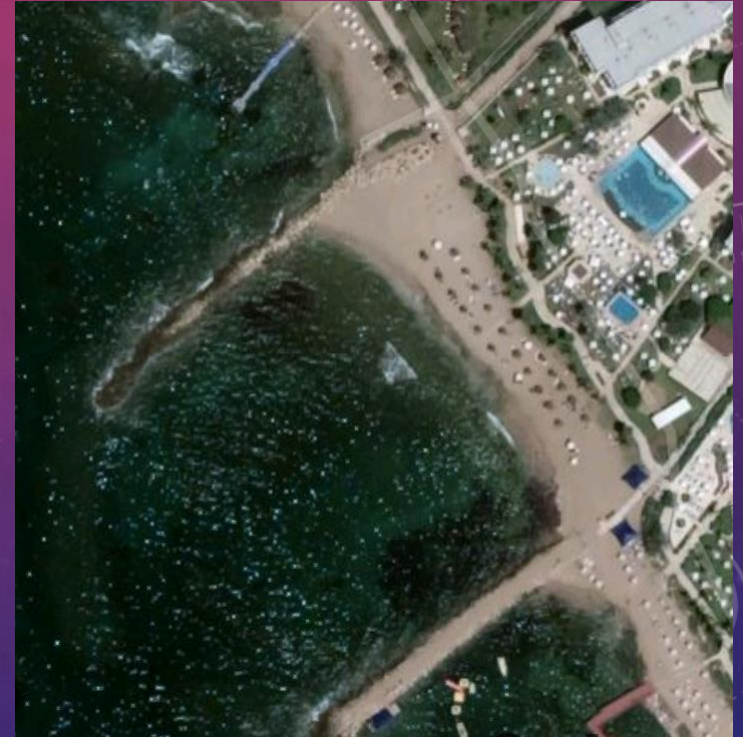
Garik Gutman,  
NASA Headquarters  
Manager, LCLUC

Advancing Products Quality



# HIGH-RESOLUTION COMMERCIAL IMAGERY DATA

- NASA is assessing the value for research and applications of two commercial data vendors with high-resolution imagery data: Planet Labs and Digital Globe
- Assessment's goal is to determine value for advancing NASA research and applications activities and objectives
  - basic quality geophysical information (stability, characterization, etc.)
- Provided a positive assessment and a consequent data purchase, it is expected that all LCLUCers will have free access to a very rich, dense dataset in 2020 from **Planet Labs** over land including coastal zone and cryosphere
- **Digital Globe** data have been and will be available from NASA GSFC through the NASA-NGA agreement
- Initial reports are due Apr 29





# LCLUC HIGH-RES PILOT STUDIES: THE MAGNIFICENT SEVEN



10:50-11:00 Krishna Vadrevu, NASA MSFC

11:00-11:10 Matt Hansen, U. Maryland

11:10-11:20 Jessica McCarty, Miami U.,  
Ohio

11:20-11:30 David Roy, Michigan State U.

11:30-11:40 Sergii Skakun, U. Maryland

11:40-11:50 Petya Campbell, NASA/UMD

11:50-12:00 Steve Walsh, U. North Carolina

Apr 29 – initial reports

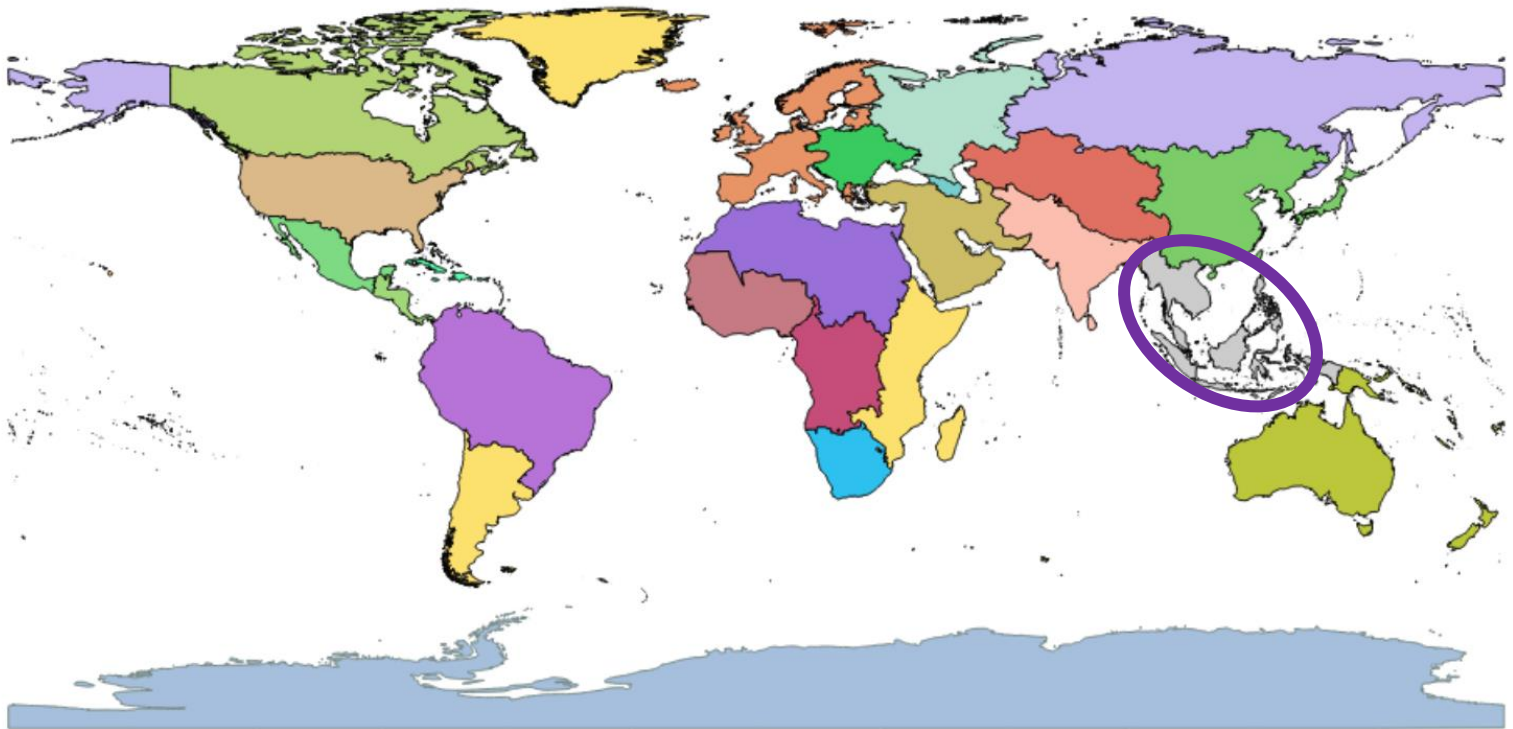
May 31 – meeting

July 31 – mid-term reports

Oct 31 – final reports

# ALL PROJECTS MAPPED

<http://lcluc.umd.edu/content/projects>



## World

- Global

## Oceania

- Australia and Oceania

## Europe

- Europe
- Caucasus
- Eastern Europe
- Western Europe
- European Russia

## Asia

- Asia
- Siberia and Russian Far East
- Middle East
- East Asia
- Southeast Asia
- South Asia
- Central Asia

## Africa

- Africa
- North Africa
- Central Africa
- East Africa
- West Africa
- Southern Africa

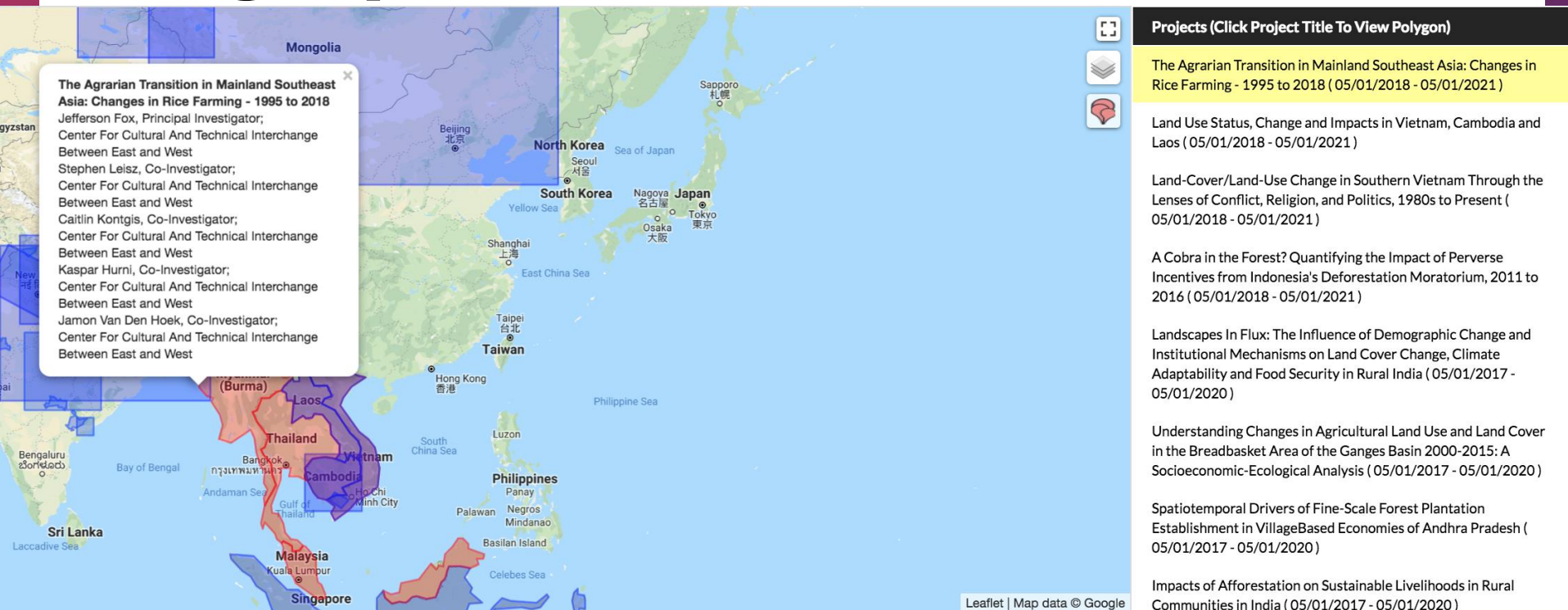
## Americas

- North America
- Alaska
- Continental U.S.
- Mexico
- Canada
- Central America
- Caribbean
- South America
- Amazon Basin



# The LCLUC Mapper

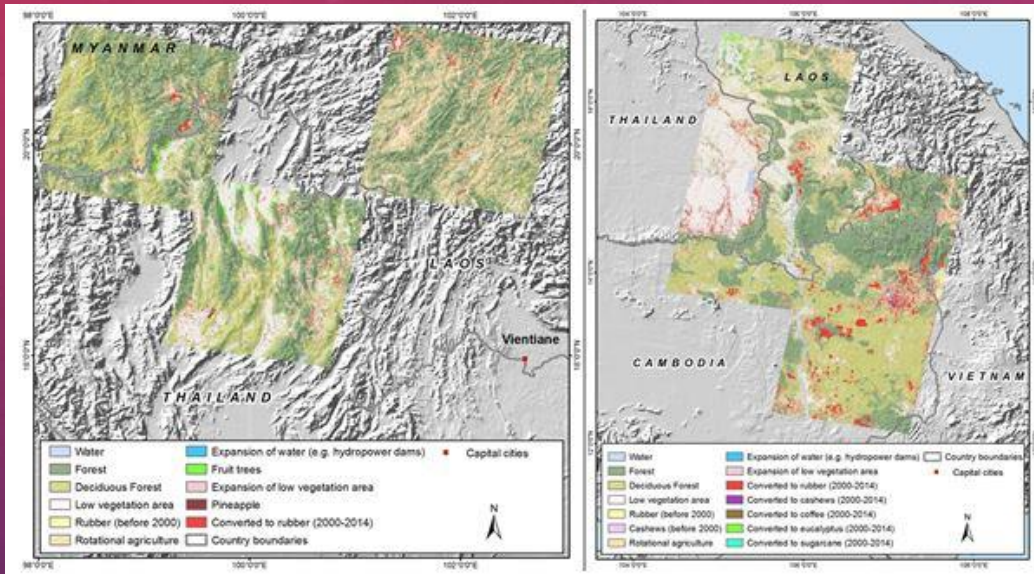
## Geographic Areas of Research



Kudos to Indu!

# Metadata Page on LCLUC website

## Mapping the Expansion of Boom Crops in Mainland Southeast Asia Using Dense Time Stacks of Landsat Data



### Project Details:

Forest, Agricultural, and Urban Transitions in Mainland Southeast Asia: Synthesizing Knowledge and Developing Theory

### Dataset creator:

Kaspar Hurni

Annemarie Schneider

Andreas Heinimann

Jefferson Fox

WHO IS PI??

AFFILIATIONS??

### Product Details:

- Spatial coverage: Seven Landsat footprints in Mainland Southeast Asia (125050, 125051, 126049, 126050, 129046, 130047, 131046)
- Temporal coverage: 2000-2014; the expansion of boom crops was mapped in 3-year periods (i.e. 2000-2002; 2003-2005; 2006-2008; 2009-2011; 2012-2014)
- Remote sensing data: Landsat 5, 7, and 8 surface reflectance data
- Resolution: 30 meters
- Projection: WGS UTM 48N
- Data Format: GeoTiffs and ESRI shapefiles

### Download Link:

Publication: <http://www.mdpi.com/2072-4292/9/4/320>

Data: <https://scholarspace.manoa.hawaii.edu/handle/10125/43976>



# EDUCATION AND OUTREACH

- **E-Newsletters**
- **Webinars**
- **One-pagers**
- **Statistics:**  
**Information on**  
**students graduating**  
**in LCLUC is needed**
- **LCLUC website and**  
**Facebook page**

## LCLUC Webinars series

- Projects have been presented during 2014-18 (Urban, Urban-Ag transitions, Ag, SARI)



Land-Cover / Land-Use Change Program

**NASA LCLUC SARI Webinar Series 2018**



**Dr. Tatiana Loboda,**  
Department of Geographical  
Sciences, University of Maryland

**18<sup>th</sup> December, 2018**  
**11:00 AM to 12:00 PM EST**



**Dr. Forrest D. Fleischman**

**NASA LCLUC SARI Webinar Series 2018**



**Dr. Peter Leimgruber**  
[Director Smithsonian Conservation  
Biology Institute's (SCBI)]

**28<sup>th</sup> November, 2018**  
**3:00 - 4:00 PM EST**



**Ryan Huang**  
[Nicholas School of the  
Environment, Duke University]

SARI webinar held on 28th Nov 2018



**Dr. Krishna Vadrevu**  
[NASA Marshall Space  
Flight Center (MSFC)]

**13<sup>th</sup> November, 2018**  
**3:00 - 4:00 PM EST**



**Dr. Meha Jain**  
[Assistant Professor,  
University of Michigan]

SARI webinar held on November 13, 2018

# SARI Capacity Building Activities

- SERVIR
- GISTDA
- SilvaCarbon
- LCLUC
  - after/before each regional meeting



Tanita



Perry



**ARTSA**  
ASEAN RESEARCH AND TRAINING CENTER FOR SPACE TECHNOLOGY AND APPLICATIONS

**ARTSA IN BRIEF**  
This center increases the capability of personnel knowledge and research development in the region as well as establishes and expands the network of academic knowledge and research collaboration among ASEAN countries that will benefit to natural resource, environmental management, and emergency response of the region.

The operational concept of the center is to increase ASEAN personnel capacity on the area of space technology and geo-informatics applications and raise awareness for all levels as well as strengthen the network of academic knowledge and research collaboration through conventional classroom training on the job training, research projects, academic network, etc.

**GOALS**

1. To provide services in education and trainings, knowledge sharing and enhancement, and awareness raising in Geo-informatics.
2. To conduct research applications and innovations, and collaborations in areas related to Geo-Informatics for ASEAN countries and worldwide.

**TARGET GROUPS**  
ASEAN government agencies, private organizations, academic institutes, universities, and schools, and other relevant organizations.

**BENEFITS**

1. Establish extensive networking of space technology and applications in ASEAN.
2. Use Geo-Informatics to respond to current regional situation, problems, and disasters.
3. Enhance the country development and strengthen the cooperation among ASEAN countries for regional competitiveness and prosperity.

**ASEAN COMMUNITY**  
**R&D DELIVERY**  
**TECHNOLOGY TRANSFER**  
**SPACE & GI**  
**APPLICATIONS & SOLUTIONS**

**GISTDA**  
GISTDA ACADEMY  
136 Phrayothai Road, Chatuchak, Bangkok 10900 Thailand.  
Tel. (+66) 2561 4504 to 5 + 4 431 432 Fax (+66) 2561 4503 Email: artsa@gistda.or.th  
www.artsacenter.org



# LCLUC-2019

- Theme: All LCLUC-related topics (Forests, Ag, Urban, etc.)
- Eligibility:
  - proposers (both PI and Co-Is) should have their Ph.D. degree awarded no earlier than 2014, so that at the time of submission of the full proposal (March 2020) a proposer would be no more than 6 years after the Ph.D. degree.
  - No restriction on the time after Ph.D. is imposed on collaborators
- Regions of interest
  - Latin America (non-LBA)
  - Mediterranean (eastern)
  - Central Asia
  - Western Asia (west of India)
- Due date step-1 Aug 1, 2019; step-2 Mar 3, 2020

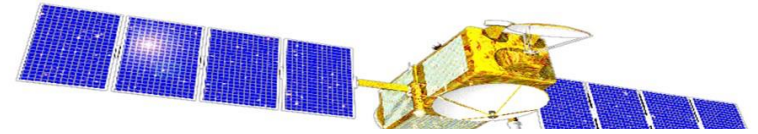
# Important Meetings in 2019



## 4<sup>th</sup> Open Science Meeting 2019

Transforming Land Systems for People and Nature

April 24 - 26, 2019 • Bern, Switzerland



LCLUC applications in Central Asia and Caucasus + Training

Astana (Nursultan), Kazakhstan

Sep 15-20, 2019

PIs working on semi-arid areas are encouraged to attend

Goal: to enhance the GOFC-GOLD CARIN and CaucRIN will be enhanced

*EARSel-LCLUC joint biannual workshop, Liege, Belgium  
May 26-28, 2020  
MuSLI+VHR applications*

living planet symposium

13-17 May 2019 | Milan



Abstracts due April 30

The Fourth

**COSPAR Symposium**

Small Satellites for Sustainable Science and Development



November 4 - 8, 2019 | Daniel Hotel, Herzliya, Israel





# Thank you, Enjoy Washington in Bloom

Thanks again to  
the LCLUC Project Office support and our sponsors