

# NASA'S LAND- COVER/LAND USE CHANGE PROGRAM

Wrap-up, Future Plans,  
Final Remarks

Garik Gutman,  
NASA Headquarters  
Manager, LCLUC Program



# LCLUC Science Team Meetings

## Washington: Cherry Blossom

- 2007: Climate/Carbon
- 2008: Joint CC&E Focus Area meeting
- 2009: LCLUC impacts on climate
- 2010: GLS LCLUC products
- 2011: 15<sup>th</sup> Anniversary (review/update)
- 2011/9: Agriculture (Joint CC&E FA)
- 2012: Urban
- 2013: Wetlands
- 2014: ??

## International: Fall-Winter

- 2007: NEESPI/MAIRS  
Urumqi, China
- 2009/1: MAIRS  
Kohn Kaen, Thailand
- 2009/9: MAIRS/NEESPI  
Almaty, Kazakhstan
- 2010: NEESPI  
Tartu, Estonia
- 2011: MAIRS  
Hanoi, Vietnam
- 2013/1: MAIRS  
Coimbatore, India
- 2013/11: NEESPI/MAIRS  
Tashkent, Uzbekistan
- 2014: ??



# ST Meetings

- ▣ Feedback from the PI' s
  - Format
- ▣ Data, metadata, NEX
  - Building the database – PLEASE, be responsive
- ▣ Identifying programmatic gaps, discussing new directions
  - Helps us develop ideas for future solicitations
  - Panels, breakout session
- ▣ Each ST meeting has a special focus
  - Invite international partners to attend
  - Invite Early Career Scientists to attend
- ▣ International: enhancing linkages with international programs and regional networks
  - International programs (e.g. NEESPI, MAIRS), new?
  - GOFC-GOLD

# Education and Outreach

- ▣ New: Trans-Atlantic Students Initiative
  - NASA-ESA
- ▣ Facebook LCLUC page: PR and interactions with a wider community
- ▣ Statistics on LCLUC educational “products” are being collected – please be responsive
- ▣ Each PI is expected to provide
  - information on MS and Ph.D. students graduating during and after the project; Thesis title; dates
  - students achievements (awards, discoveries)
  - Awards by PI’ s

# LCLUC Current Portfolio

- ROSES-2007 5-yr final stage
  - USPI (SALMON)
  - MEASURES
- ROSES-2009
  - LCLUC final stage (Ag and Urban)
- ROSES-2010
  - USPI 5-yr mid-term
  - Carbon Cycle final stage
  - LCLUC mid-term (Synthesis and Wetlands)
- ROSES-2011
  - LCLUC ECS started
- ROSES-2012
  - LCLUC Ind. Forests and Synthesis invited for step-2

# Ongoing and future Solicitations

- ◎ ROSES-2012: LCLUC Step-2
  - 15 invited for step-2
  - Due June 1
  - Selections in September
- ◎ ROSES-2012: IDS and Carbon Cycle
- ◎ ROSES-2013: LCLUC Step-1 proposals
  - ◎ LCLUC in mountains
  - ◎ Synthesis of LCLUC

# China Issue

- ▣ *Public Law 112-10, Section 1340(a): None of the funds made available by this division [this law] may be used for the National Aeronautics and Space Administration or the Office of Science and Technology Policy to develop, design, plan, promulgate, implement, or execute a bilateral policy, program, order, or contract of any kind to participate, collaborate, or coordinate bilaterally in any way with China or any Chinese-owned company unless such activities are specifically authorized by a law enacted after the date of enactment of this division.*
- ▣ Multi-lateral OK
- ▣ NASA \$\$ should not be spent – so using non-NASA (extra) funds for collaboration with China is OK

# Future Steps

- ▣ Continue international efforts (under CEOS) to achieve
  - VIRTUAL Land Surface Imaging constellation (NASA+ESA, INPE, ISRO)
- ▣ Keep social science component in LCLUC projects an integral part of the LCLUC proposals
- ▣ Balance the program thematically and geographically
- ▣ Foster global land-use products generation for models
- ▣ Promote our products internally and externally (FB page, brochure)
- ▣ Keep LCLUC calls on a regular, annual basis
  - Step-1 around Dec 1, Step-2 around June 1
- ▣ Continue the twice-a-year ST meetings structure






Ottmar Edenhofer · Johannes Wallacher  
Hermann Lotze-Campen · Michael Reder  
Brigitte Knopf · Johannes Müller · Editors

# Climate Change, Justice and Sustainability

Linking Climate and  
Development Policy

 Springer



Thank you,  
Enjoy  
Washington in Bloom

Thanks to Chris, and his project office support:  
Lydia, Catherine, Jon and Jack !!