

# *NASA's Land-Cover/Land Use Change Program*

Wrap-up, Future Plans,  
Final Remarks

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# LCLUC Science Team Meetings

## Washington: Spring 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: Urban
- 2015: Early Career Scientists (Joint CC&E FA)
- 2016: 20<sup>th</sup> Anniversary (retrospective)



## 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: *NEESPI Central Europe?*
- 2015: *MAIRS Myanmar*
- 2016: *Africa or Central America?*





# ST Meetings

- Feedback from the PI' s
  - Format
  - New ideas
- Data, metadata, NEX
  - Building the database – PLEASE, be responsive
  - Setting up webinars
- Identifying programmatic gaps, discussing new directions
  - Helps us develop scope for future solicitations
  - Panels, breakout sessions

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) – changing
- South Asia Initiative
- GOFC-GOLD

# Education and Outreach

- Continue Trans-Atlantic Students Initiative
  - NASA-ESA
- Facebook LCLUC page: PR and interactions with a wider community
- P'sI is expected to provide to the LCLUC Project Office ALL the info on the staff of the project: Students, Collaborators IN ADDITION to showing it on the front page of their presentations
- 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
  - Photos



# LCLUC Current Portfolio

- ROSES-2009
  - LCLUC (Ag and Urban) finished (some no-cost ext.)
- ROSES-2010
  - USPI 5-yr mid-term
  - LCLUC (Synthesis and Wetlands) final stage
- ROSES-2011
  - LCLUC ECS mid-term
- ROSES-2012
  - LCLUC Industrial Forests and Synthesis started

# Ongoing and future Solicitations

## ◎ ROSES-2013: LCLUC Step-2

- 33 invited for step-2
- Due June 1
- Selections in September

## ◎ ROSES-2013: Carbon Cycle

- ◎ 2 projects

## ◎ ROSES-2014: no regular call

- ◎ Potential amendment – call to form Land Imaging ST

## ◎ ROSES-2015 expect a regular call



# China Issue

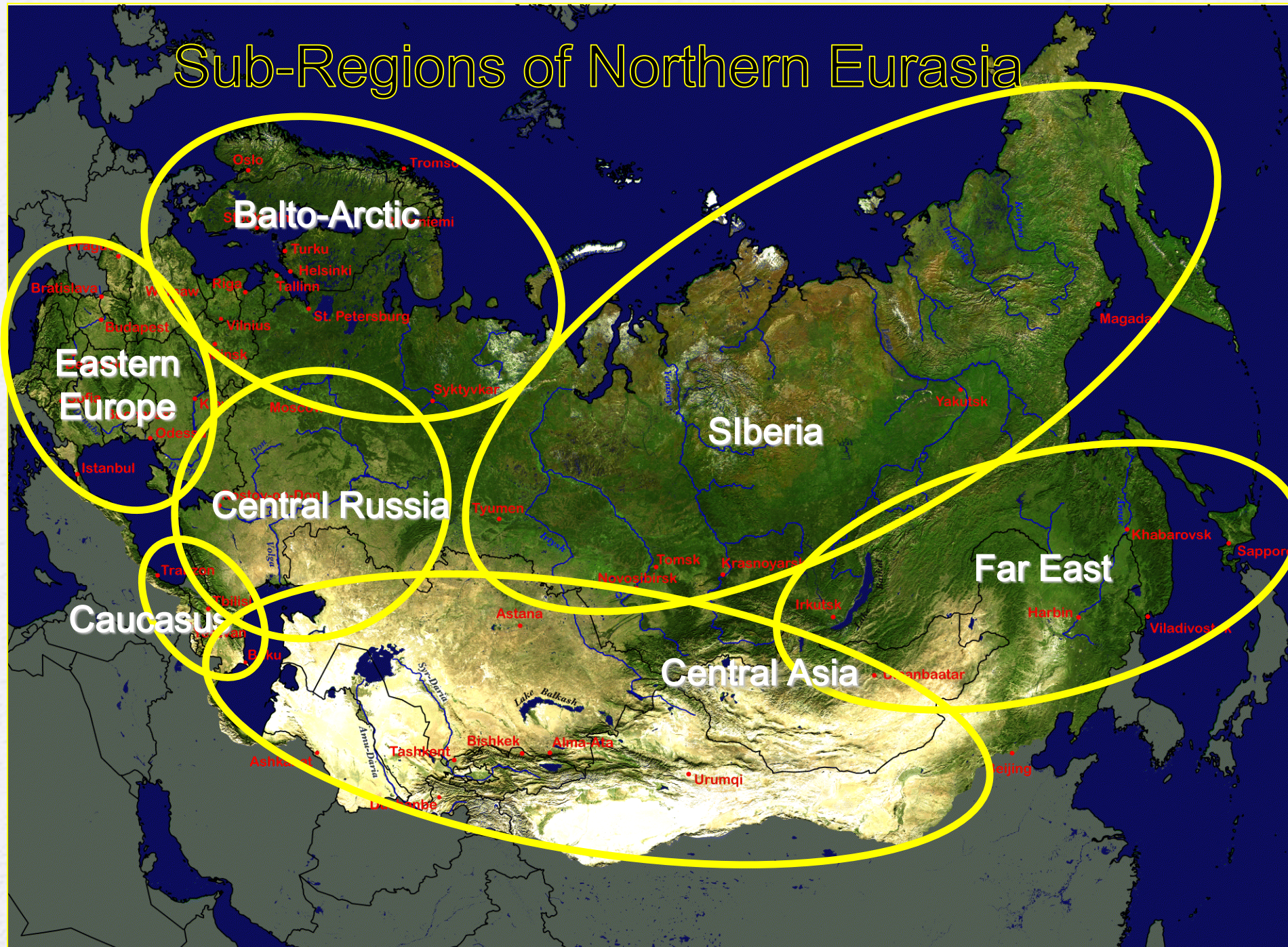
- *Public Law 112-10, Section 1340(a): None of the funds made available by this division [this law] may be used for the National Aeronautics and Space Administration or the Office of Science and Technology Policy to develop, design, plan, promulgate, implement, or execute a bilateral policy, program, 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

# Russia Issue

- "all NASA contacts with Russian Government representatives are suspended, unless the activity has been specifically excepted."
- "Given Russia's ongoing violation of Ukraine's sovereignty and territorial integrity, until further notice, the U.S. Government has determined that all NASA contacts with Russian Government representatives are suspended, unless the activity has been specifically excepted. This suspension includes NASA travel to Russia and visits by Russian Government representatives to NASA facilities, bilateral meetings, email, and teleconferences or videoconferences. At the present time, only operational International Space Station activities have been excepted. In addition, multilateral meetings held outside of Russia that may include Russian participation are not precluded under the present guidance."
  - Michael F. O'Brien, Associate Administrator for International and Interagency Relations, NASA



# Sub-Regions of Northern Eurasia











Windows is shutting down...

# Programmatic Future

- Continue international efforts (under CEOS) on Land Surface Imaging constellation (NASA, ESA, INPE, ISRO, etc. )
  - NASA contribution - forming Land Imaging Science Team
  - Preparatory work for using Sentinel-2 data
- Keep social science component in LCLUC projects an integral part of the LCLUC proposals but not in all calls
- Balance the program thematically and geographically
  - less Russia and China
  - more S.Asia, C.Asia and Caucasus
  - Promote our products internally and externally (FB page, webinars)
- Keep LCLUC calls on a regular, annual basis
  - Step-1 around Dec 1, Step-2 around June 1
  - The 2014-2015 period is irregular - amendment(s) to be announced
- Continue the twice-a-year ST meetings structure



# Future International Meetings

- 2014
  - LCLUC ST (TBD)
  - Desertification conference, Sde Boqer, Israel, Nov 2014
  - 2<sup>nd</sup> LCLUC TAT session Krakow, Poland, June 2014
- 2015
  - NEESPI conference: 10<sup>th</sup> Anniversary and Future Northern Eurasia, Prague, Czech Rep. May 2015
  - 3<sup>d</sup> LCLUC TAT session Prague, May 2015 (adjacent to NEESPI conference)
  - LCLUC ST/MAIRS – S.Asia-SE Asia line – Myanmar, 2015
- 2016
  - LCLUC-ERSeL joint workshop (similar to Berlin 2014)
  - 10<sup>th</sup> Anniversary for MAIRS ?





Thank you,  
Enjoy  
Washington in Bloom

Thanks to the LCLUC Project Office support at UMD