International LCLUC Regional Science Meeting in Central Asia
Tashkent, Uzbekistan

AGENDA

Day 1 (November 11, Monday)
Lunch on your own

12:00-13:00 - Meeting Registration

13:00 Welcome and Opening Addresses

- Rector of TIIM - Mukhamadkhan Khamidov
- Uzbekistan - USA Ambassador – George Krol
- Deputy Minister of Agriculture and Water Resources - Shavkat Khamraev
- Chair of State Committee of Land, Geodesy and Cadaster - Saidkul Arabov

13:45 Session: Meeting Objectives and LCLUC Programmatic Context (15-minute presentations)

- Meeting Objectives - Chris Justice (University of Maryland College Park, USA)
- The NASA LCLUC science for Central Asia - Garik Gutman (NASA HQ, USA)
- LCLUC-related initiatives at TIIM - Alim Pulatov (Tashkent Institute of Irrigation and Melioration, Uzbekistan)
- Central Asia initiatives in the MAIRS/NEESPI programs - Qi (MAIRS/MSU); Groisman (NEESPI/NOAA, USA)
- GOFC-GOLD Regional Networks and Central Asia - Olga Krankina (GOFC/OSU)

15:00 Tea Break and Group Photograph

15:30 – Panel 1: Aral Sea Basin Issues

Panel Moderator: Garik Gutman (NASA HQ, USA)
Rapporteur: Krishna Vadrevu (U. Maryland, USA)

Panelists:
Polat Reimov (GIS Center at Karakalpak State University, Uzbekistan)
Rashid Kulmatov (National University of Uzbekistan, Uzbekistan)

17:15-19:00 Poster session and Reception

Day 2 - November 12, 2013

9:00-9:20: Invited

Integrated Modeling of Land Cover/Land Use Change and Interactions - Rik Leemans (Wageningen University, Netherlands)

9.20-10:30 Panel 2: Agricultural Land-Use and Water Resources

- International Coordination on Agricultural Monitoring: GEOGLAM - Chris Justice (University of Maryland College Park, USA)

Panel Moderator: Chris Justice
Panel Rapporteur: Geoff Henebry

Panelists (max 3 slides each):
- Geoff Henebry (South Dakota State University, USA)
- Alexander Chertovitsky (TIIM, Uzbekistan)
- Kosimjon Rakhmonov (TIIM, Uzbekistan)
- Alexander Prischepov (IAMO, Germany)
- Chandrasekhar Biradar (ICARDA, Jordan)

10:30–11:00 Tea Break

11:00 Panel 3 - Regional Information Network (CARIN): Regional and National Priorities for LCLUC Research

Panel Moderator: Olga Krankina (OSU, USA)
Rapporteur: Jiaguo Qi (MSU, USA)

Panelists (max 3 slides each):
- Kazakhstan - Nadya Muratova (National Center for Space Research and Technologies)
- Kyrgyzstan - Temirbek Bobushev (American University of Central Asia)
- Tajikistan - Hasan Safarov (Tajik Agrarian University)
- Uzbekistan - Alim Pulatov (TIIM, Uzbekistan)
Towards a GOFC-GOLD Caucasus Regional Network (CASCADE Experience)

- Armenia - Lilit Vardanyan (UNESCO)
- Azerbaijan - Eltekin Omarov (UNDP)
- Georgia - Georgi Gambashidze (Agricultural University of Georgia)

General Discussion

12:30-1:30 Lunch

2:30 pm: Field trip to Charvak Water Reservoir - Mountain area

7:00 pm - Return to hotels

Day 3- November 13, 2013

9:00-10:30 Session: Earth Observations and Remote Sensing Applications for LCLUC (20 min for presentation)

Session Chair: Garik Gutman (NASA HQ)

- Satellite earth observations in Central Asia – Vakil Gataulin (Uzbekistan Astronomical Institute, Uzbekistan)
- Landsat and Sentinel 2 Data Potential Synergy - Garik Gutman (NASA Headquarters, USA)
- German Remote Sensing Initiatives - Christopher Conrad (Universitat Wuerzburg, Germany)

10:30 – 11:00 Tea Break

11:00-11:20 – Invited Talk

Utilizing NASA’s Earth Observations for Societal Applications - Shahid Habib (NASA Goddard Space Flight Center, USA)

11:20 – Panel 4: Monitoring of Land Use, Water Resources and Fires and Impacts

Panel Moderator: Geoff Henebry (South Dakota State U., USA)
Panel Rapporteur: Jamon Van Den Hoek (NASA GSFC)
Panelists:
- **Lyubov Lebed** (Kazakh Research Institute of Ecology and Climate, Kazakhstan)
- **Krishna Vadrevu** (University of Maryland, College Park, USA)
- **Alexey Terekhov** (National Spatial Agency, Kazakhstan)
- **Soe Myint** (Arizona State University, USA)
- **Abror Gafurov** (Potsdam, GFZ, Germany)

12:30 – 1:30 Lunch

**1:30 Panel 5: High elevations and water resources research**

**Panel Moderator:** **Alexander Shiklamanov (U. New Hampshire, USA)**  
**Rapporteur:** **Soe Mynt (Arizona State University, USA)**

Panelists:
- **Kamilya Kelgenbaeva** (International University of Kyrgyzstan, Kyrgyzstan)  
- **Bolot Moldobekov** (Central-Asian Institute for Applied Geosciences, Kyrgyzstan)  
- **Vladimir Aisen** (University of Idaho, USA)  
- **Pavel Groisman** (NOAA/UCAR, USA)  
- **Alexander Platonov** (International Water Management Institute, Central Asia Caucusus countries office, Uzbekistan)

3:00 – 3.30 Tea Break

**3:30-3:45** - Summary of the Bukhara-Samarkand LCLUC summit and land-use transect field trip- **Krishna Vadrevu (University of Maryland, USA) and Alim Pulatov** (Tashkent Institute of Irrigation and Melioration, Uzbekistan)

**3:45 - 5:00 Plenary Discussion: Data and knowledge gaps and research priorities**

Summaries of Panel Discussions by Rapporteurs/Moderators

Towards a synthesis report: Implementing NASA LCLUC programmatic objectives in the Central Asia Region and developing informational scientific synthesis, as related to policy needs concerning land use, food and water resources in the region - **Chris Justice** (University of Maryland College Park, USA)

**5.00 – 5.30 Meeting Wrap-Up – Garik Gutman and Alim Pulatov**
Day 1, 11/14/2013

8:30 – 10:00  Remote Sensing, data and products (Qi & Krishna Vadrevu)

10:00 -11:00  Contemporary hydrophysical state of the Aral Sea and its impact on the coastal zone of Kazakhstan and Uzbekistan (Peter Zavialov)

11:00 – 11:10 Break

11:10 – 12:30 Issues of hydrological cycle changes over the extratropical land areas (Pasha Groisman)

12:30 – 13:30 Lunch Break

13:30 – 15:00 Spatial thinking of critical issues in Central Asia (Arnold Bregt)

15:00 – 15:30 Break

15:30 – 17:00 Geo-informatics applications in Central Asia (Chandra Biradar)

Day 2, 11/15/2013

8:30 – 10:30  Monitoring land use and land cover change (Christopher Conrad)

10:30 – 11:00 Break

11:00 - 12:30  Land use and land cover analysis (Jamon Van Den Hoek)

12:30 – 13:30 Lunch Break

13:30 – 15:00 Irrigation and salinity issues in Uzbekistan (Rashid Kumatov)

15:00 – 15:30 Break

15:30 – 17:00 Discussions on future training needs and plan (Jiaguo Qi)