

International LCLUC Regional Science Meeting in Central Asia

Tashkent, Uzbekistan

11/11/2013 - 11/13/2013

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 GOF-C-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 Myint (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 Caucasus 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

Training Session

Geospatial Technologies & Models for Land & Water Resources in Central Asia November 14-15, 2013

Tashkent Institute of Irrigation and Melioration
Tashkent, Uzbekistan

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)