

International Workshop
Alpine hazard Remote Sensing and Modeling
12-13 June, 2023

Aims & Scope

The Ulugh Beg Astronomical Institute of the Uzbekistan Academy of Sciences (UBAI) will bring together scientists from all professions and applications that deal with use of remote sensing data and modeling to study alpine hazards and glaciers. The Workshop will be held 12-13 June, 2023 in Tashkent. Due to ongoing collaborative works with scientists of the WSL Institute for Snow and Avalanche Research SLF and CERC in the frame of the UNIGE project “Snow avalanche hazard assessment in Uzbekistan applying multitemporal radar images and numerical models” and with the Remote Sensing Technology Institute of the DLR on using SAR data in glacier studies, the Workshop will aim to exchange knowledge and scientific opinions in the fields of studies in Europe and Central Asian region and expand close and fruitful collaboration between the scientific personnel and potential stakeholders that is important for future handling of natural hazards. Received benefits from learning the experience of European institutions in mountain hazard remote sensing and modeling will allow reducing the natural risks and mitigate catastrophic consequences in Uzbekistan.

Guest speakers:

- Dr. Yves Bühler, Alpine Remote Sensing, CERC, WSL Institute for Snow and Avalanche Research SLF;
- Dr. Andrea Manconi, Alpine Remote Sensing, CERC, WSL Institute for Snow and Avalanche Research SLF;
- Dr. Dana Floricioiu, German Aerospace Center (DLR), Earth Observation Center (EOC), Remote Sensing Technology Institute (IMF), SAR Signal Processing.

Workshop Topics include:

- Remote Sensing for the detection and monitoring of alpine gravitational hazards;
- UAV Remote Sensing for snow cover and snow depth mapping;
- InSAR techniques in snow and avalanche studies;
- InSAR techniques in landslide studies and other geological phenomena;
- Satellite radar imagery in glacier studies;
- RAMMS modeling in alpine hazards risk;
- Large scale hazard indication modeling for avalanches;
- Software tools

All interested experts from hydrometeorological and geological organizations as well as from the Ministry of Emergency Situations and Space Agency are kindly invited. Participant presentations on the Workshop Topics are welcomed. The expected mode of the Workshop is offline. The working languages of the Workshop are English, Russian and Uzbek.

Responsible person: Dr. Eleonora Semakova

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Important dates:

20 April, 2023.	The first announcement about the Workshop
25 April, 2023	Registration opening
15 May, 2023	Abstracts deadline
25 May, 2023	Information about the Workshop Program and Agenda
12–13 June, 2023	Workshop meetings
14 June, 2023	Kamchik Pass visit