

The Mountain Geohazard Assessment Model MoGAM

Presented by Ingrid Kleinbauer University of Natural Resources and Applied Life Sciences, Vienna

Remote Geohazards Assessment in Tajikistan

Regional Climate Risk Resilience Workshop , Dushanbe, 1.-3. June 2010

)= 🖾 IAG — Mountain Geohazard Assessment Model : 💤 =

Content of the presentation

Hazard assessment at the regional scale

- > Data acquisition and preparation
- > Change detection
- > Survey planning

Direct survey of potential hazardous areas

- > Helicopter survey
- > Field work

Hazard assessment at the local scale

- > Model calculations
- > Hazard indication rating

Mountain Geohazard Assessment Model BOKU University, Vienna • FOCUS Humanitarian Assistance





= 🖾 IAG — Data Acquisition and Preparation —

Satellite imagery – Time series

- > Scenes should cover each study area
- > Appropriate resolution (spectral and spatial)
- > Cloud cover should be as low as possible
- > Season/month when image is taken
- > Not to ignore: costs







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Field work > Field trips lasting one to several days

- > by car or by helicopter drop off
- > Equipment: satellite telephone, field maps, GPS receiver, field computer, field book, camera, sample bags
- > Features of interest: slopes, dams, landslide deposits, valley bottom, (rock) glacier
- > Integration of new information and structured storage of data

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Post-Assessment – Hazard Rating





IAG - Hazard indication map - example -

Hazard Indication Map



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