# Geo-information and Disaster Risk Reduction in the Hindu Kush-Himalayan region



FOR MOUNTAINS AND PEOPLE

Basanta Shrestha, Division Head MENRIS,

**International Centre for Integrated Mountain** 

**Development** 

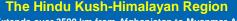
Kathmandu, Nepal

The International Centre for Integrated Mountain Development (ICIMOD)

# ICIMOD

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- A regional mountain knowledge, learning and enabling centre devoted to sustainable mountain development
- Information and Knowledge are chief Commodities of the Centre
- www.icimod.org
  http://geoportal.icimod.org

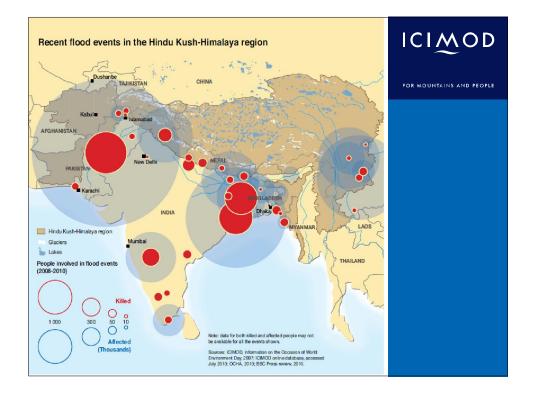


Extends over 3500 km from Afghanistan to Myanmar And Home to 200 million People



An intergovernmental and independent organisation with eight member states

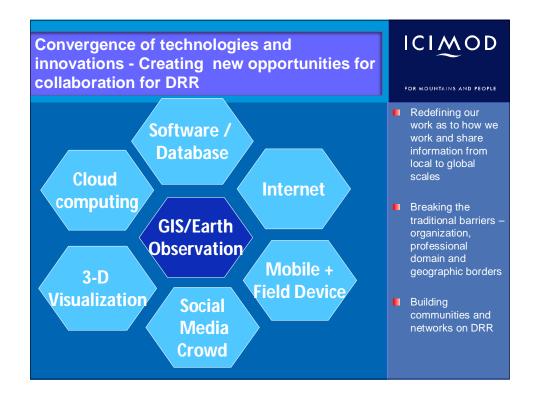


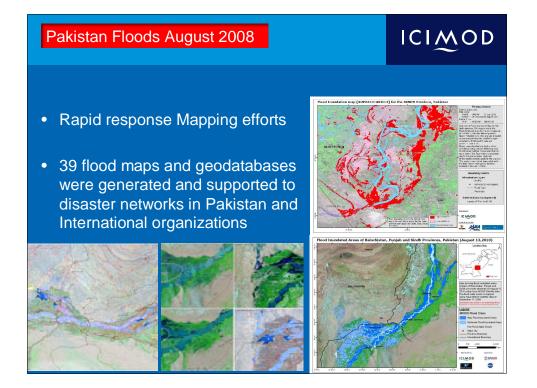


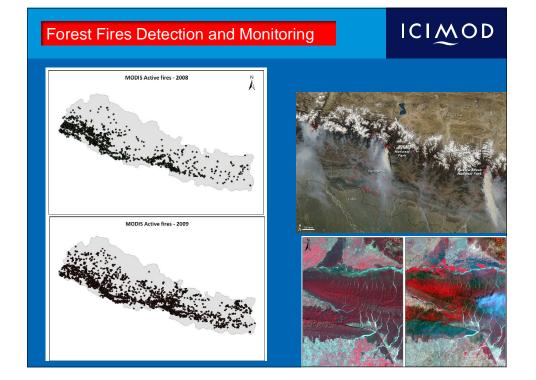
### ICIMOD Increasing emphasis on geoinformation FOR MOUNTAINS AND PEOPLE Risk mapping and modeling Vulnerability analysis Early warning system and of G Geoinformation for Damage **Disaster and Risk Management** assessment Examples and Best Practices Spatial analysis and planning Emergency response mapping

# <complex-block>

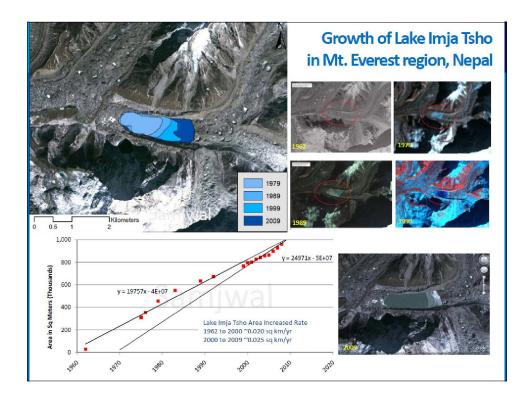












## Monitoring of Imja Glacial lake

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### nWi-Fi Mesh-network

nWeb Server ü**Measurement** üDevice Control

### nSensors (up to 24ch)

ü Air temp.

- ü Humidity ü Solar Radiation, UV  $\ddot{u}$  CO<sub>2</sub> concentration

ü •••• tolerate the cold weather

nCamera (0.3-8M Pixels) nSolar-cell nLED Lighting





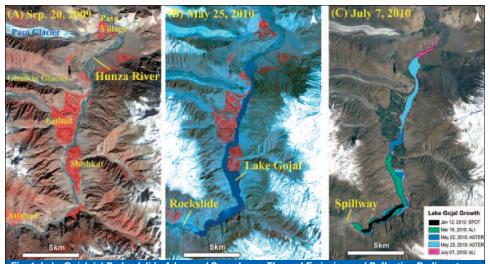


Fig. 1. Lake Gojal. (a) Prelandslide Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) false-color image mosaic of the Hunza Valley. Red indicates vegetation (mainly agricultural fields) and also includes villages. (b) ASTER false-color image 4 days before the overflow. Note the extensive late spring snowfields and glaciers feeding Lake Gojal. (c) Advanced Land Imager (ALI) near-true color base image, 7 July 2010, showing the growth of Lake Gojal based on Satellite Pour l'Observation de la Terre (SPOT), ALI, and ASTER imagery. The colors used to designate the lake mark the growing extent of the lake in the chronological sequence indicated by the legend.

# Satellite based Emergency Response System

Extreme Crisis or disaster Mobilization

Collaboration and Coordination is a must!

 Workflow for satellite based emergency activitie tasking activitie search auxiliary data
 Data acquisition

# 预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5\_7765



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