

Working Group 6

Adaptation strategies at local level (water use and management and socioeconomic factors)

Progress July 2015-
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Group Members/Contributors

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An Assessment of Climate Change Adaptation initiatives in UIB

Sector	Climate Induced hazard	Adaptation Actions	Role
Agriculture	Damages to irrigation channels due to flooding, land slides, debris flows, glacial melt/retreat	Improvement of water channels, improved irrigation technologies (lift)	AKRSP, WWF, EvK2CNR, ICIMOD, PCRWR, GB Agriculture Department, Local communities,
	Diminishing quality and quantity of agri products due to extreme weather events	Fruit processing, improved packaging	AKRSP, GB Agriculture Department, MARC, Local Communities
	Reduced marketability due to damaged road network	Construction /repair of link roads	GB Works Department, LG&RD, AKRSP, Local Communities
	Insect pests and diseases due to weather extremes	IPM	GB Agriculture, AKRSP Department, Local communities

Sector	Climate Induced hazard	Adaptation Actions	Role
Water (Rivers, streams, lakes, glaciers)	GLOF, Flash Floods, Landslide, Debris flow	Pakistan GLOF Project's activities GLOF Monitoring	CCD, UNDP, ICIMOD, WWF, GB Government, Local Communities
	River/Stream bank erosion	Protective embankments/Gabion walls, Afforestation	AKRSP, WWF, EvK2CNR, ICIMOD, GB Forest Department
	Loss of life, livelihoods and infrastructure due to glaciers surge	Alternative water supply sources, improvement of road networks	Local communities, NHA/GB Works Department, AKRSP
Health and safety	Loss of lives due to floods, landslide, debris flow	DRR and Emergency Response	GBDMA, FOCUS, Red Crescent, Local Communities
	Health problems due to prolonged use of smoke emitting heating and cooking tools	Use of energy efficient technologies	AKPBS, WWF, EvK2CNR

Sector	Climate Induced hazard	Adaptation Actions	Role
Watershed/Forestry	Soil/land erosion due to excessive use of plant biomass to cope with extreme weather conditions (prolonged winters)	Firewood plantation, energy efficient housing, cooking and heating technologies, alternatives of plant biomass (LPG, Coal, hydro-electricity, solar energy)	AKPBS, GB Forest Department, WWF, EvK2CNR, Local communities

Strengths and Opportunities

- Greater realization of climate change at all levels (Government, civil society and community)
- Pro-active community participation
- Strong network of community organizations
- Lessons from numerous demonstration projects

Gaps/Weaknesses

- Adaptation planning (Local, Provincial and National)
- Policy enforcements
- Public awareness and advocacy
- Training and capacity-building initiatives
- Financial constraints
- Empirical research

Progress of UIBN partners (KIU)

- International Conference on Mountain and Climate Change. September 2015 (in partnership with GoGB, ICIMOD, WWF, EvK2CNR, MARC and NORAD)
- Journal of Mountain Areas Research
- Training workshop on Permafrost and Glaciers (with support of ICIMOD)
- International workshop on food security and sustainable livelihoods in mountainous terrain (in collaboration with ITC, Netherlands)
- Training Workshop on “Assessment of Earthquakes and associated secondary hazards using advanced Geo-information tools (in collaboration with ITC, Netherlands)
- Seminar on Water Resources: Challenges and Opportunities (with support of Indus Forum)
- Scholarships and thesis support at graduate and undergraduate level



Progress of UIBN partners (COMSATS)

- Establishment of High Mountain Research Center at COMSATS Abbottabad
- Establishment of UNESCO Category-II Center on Hydrology of Headwater Catchments at COMSATS Abbottabad
- One week field work in Hunza Valley
- One week consultative workshop on High Mountain Research and curricula development
- Estimation of Farm Level Technical Efficiency in Maize Production in the High Mountains (HEC funded)
- Submitted four research/capacity building projects to HEC

Suggestions/Way forward

SOPs/ToRs for the Technical Working Group

- Membership
- Interaction (within group/inter-groups, inter-organizations)
- Knowledge sharing
- Policy input

Thank you for your attention

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