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Integrated climate impact assessment in mountains

Case study exercises

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Case study exercise

Task (1)

- 5 groups per 2 persons each
- Select a case study region in India (preferably one of your home regions)
- Maximum spatial area is State
- Identify 3-5 important aspects of vulnerability in your case study region
- Identify the 5 most important climate impacts in your case study region, if possible consider frequency, magnitude and location of impacts (exposure of people or assets)
- Analyze inter-sectoral impacts and effects
- Analyze the important risks that result from the vulnerabilities and impacts, apply low, medium and high risk levels
- Develop a few feasible adaptation options that contribute to reduce the analyzed climate risks
- Impacts, vulnerabilities and risks can be both for current and future conditions but the reference time period has to be clearly specified

Case study exercise

Task (2)

- Prepare a presentation based on your case study results
- max. 15 min and max. 10 slides
- The following points should be included in the presentation:
 - Short description of the case study region
 - Identified vulnerabilities
 - Identified impacts
 - Cross-sectoral impact effects
 - Resulting risks
 - Adaptation options

Case study exercise

Guiding example

- Case study region x
- Vulnerabilities: high degree of poverty, social minorities, gender aspects, age distribution (older people more vulnerable), adaptive capacity
- Impacts: heat wave occurrence, drought, water shortage, heavy rainfall and flood events, land degradation
- Risks: high risks resulting from projected highly frequent and strong heat waves and highly vulnerable population; medium risks resulting from current relatively frequent, medium-sized floods, and partly vulnerably and exposed people
- Adaptation options: heat wave: strengthen health services, floods: reduce exposure to floods, strengthen preparedness and early warning