



Socio-Ecological Changes and Human Mobility in Landslide Zones of Chamoli District of Uttarakhand

Desh Deepak Singh

India (deshdeepak.geo@gmail.com)

Disaster displacement represents one of the biggest humanitarian challenges of the 21st century. Between 2008 and 2014, 184.6 million people were forced from their homes due to different natural disasters, with 19.3 million newly displaced in 2014, according to the latest available data from the Internal Displacement Monitoring Centre (IDMC). In Uttarakhand state in India, hill slopes are known for their instability as they are ecologically fragile, tectonically and seismically active, and geologically sensitive that makes it prone to landslide hazards. Coupled to this, the rapid expansion of human societies often forces people to occupy highly dynamic and unstable environments. Repeated instances of landslide in highly populated areas have now forced many people to out migrate from vulnerable and high risk areas of Uttarakhand. The present study overlays the maps of geology, vegetation, route network, and settlement of Chamoli district of Uttarakhand to find out through overlay analysis, the landslide risk zonation map of Chamoli. Further, through primary survey in the high risk zones, the migration pattern and migration intensity has been analysed and a model for determining long term trend of migration in ecologically changing location has been developed.

Keywords: Landslides, Uttarakhand, Migration, Risk Zonation Mapping