


Name:	Binaya Kumar Mishra	
Specialization/ Qualification:	M.Sc. (Water Resource Eng.)	
Current Affiliation	Ph.D. student, Kyoto Univ.	
Contact Address:	Kyoto, Japan 090-34290802	
E-mail:	mishra_binaya@hotmail.com	
URL:		
Affiliation in Nepal	Engineer, Department of Irrigation	
Contact Address in Nepal:	Dist.: Rautahat, VDC: Matsari-5	
Research Interests:	Statistical and Stochastic Hydrology, Distributed Hydrological Modeling, Application of Remote Sensing and GIS	
<b>Current Research Abstract</b>		
Theme: Development of Regional Flood Frequency Relationships for Nepalese River Basins		
<p>Design flood (maximum discharge of specified return period) is required in design of various hydraulic structures and planning/management of water resource projects. Regional flood frequency analysis is an effectively applicable method for estimating design flood at both gauged and ungauged sites. This method includes three major steps: 1. delineation of hydrological homogeneous regions, 2. identification of regional distribution/parameter, and 3. determination of index flood or scale parameter. The present research attempts to develop flood frequency relationships for different hydrological homogeneous regions inside the Nepalese territory. Delineation of hydrological regions, which is key step to success of this method, is based on soil type, land cover, land relief and monsoon rainfall pattern information since these factors mainly govern generation of flood. The L-moment based homogeneity test has been used to check the homogeneity of the delineated regions.</p>		