

Generalized Pareto Distribution applied on rainfall extreme events in Uruguaiana, RS

Amanda Larissa Alves Martins¹, Gilberto Rodrigues Liska²

Abstract: The goal of this study was to model extreme events of rainfall through the Peaks Over Threshold methodology by means of the Extreme Values Theory in the municipality of Uruguaiana, RS. It was concluded that Generalized Pareto Distribution can be used to provide extreme levels of maximum rainfall.

Keywords: Extreme Value Theory; Probability; Rainfall Level; Flood Discharges

¹ Student of Bachelor Interdisciplinary in Science and Technology – UNIPAMPA, Itaqui college. email: amandamartins2503@gmail.com.

² Professor – UNIPAMPA, Itaqui college. email: gilbertoliska@unipampa.edu.br.