

Dr Mark James Fielding

Senior Statistician

DHI Water and Environment

Title:

Extreme Value Analysis for Worldwide Rainfalls

Abstract:

An overview is given on the statistics of extremes in the determination of possibly yet to be observed extremes of 15, 20, 40 and 100 years for use in the insurance industry. A proposal is discussed to examine worldwide rainfalls and provide early warning for floods as well as droughts, made possible through NASA's Tropic Rainfall Measuring Mission. Developments are discussed also for the multivariate case, including the use of copulas.