

A DEFAULT BAYESIAN APPROACH FOR REGRESSION ON PARAMETERS OF THE NON-HOMOGENOUS POISSON-GENERALIZED PARETO DISTRIBUTION PROCESS.

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We present a default Bayesian approach to predict extreme events using covariates in the non-homogenous Poisson-Generalized Pareto Distribution point process. The prior we propose is based on a similar Jeffreys' rule for the regression parameters. The posterior turns out to be relative easy to be computed even with a large set of covariates. We apply the model to two hydrological data sets.