



Extreme Sea Waves on Guadeloupe, French West Indies

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The collection of extreme sea waves recorded in Guadeloupe (French West Indies, Lesser Antilles) is presented. This collection includes the tsunami waves and storm surges for the period of 500 years. These data of extreme waves are discussed and numerical modelings of some historic extreme sea waves are performed in the framework of the nonlinear shallow - water theory. The heights of extreme wave for Guadeloupe coasts are compared and the most dangerous regions are also evaluated.