Tropical cyclones: paying a high price for environmental destruction

By Pascal Peduzzi *

Haiti did not need this. In 2004 alone floods claimed 2,665 victims in May, week-long rioting ousted President Aristide and Hurricane Jeanne killed 2,754 more. But to blame it all on bad luck or coincidence would be a mistake.

Tropical cyclones are certainly powerful atmospheric hazards causing heavy rain, high wind and sea surge, but the related disasters are not falling from the sky. Disasters are always the combination of a hazardous event and vulnerable population. There is no such thing as a "natural disaster". Otherwise how can we explain the range of casualties in various communities affected by the same event with comparable winds and rains? For instance the Dominican Republic and Haiti are located on the same island, but Jeanne claimed, respectively, less than twenty and over 2,700 victims. This was perhaps an exceptional event, but if we look at the statistics for 1980-2003 the death toll per inhabitant exposed to cyclones is on average 4.6 times higher in Haiti than in the Dominican Republic.

Does wealth explain such an difference? The enormous Dominican Republic is certainly richer than its 4.1 times neighbour. What about development? After all a higher level of development means

Programme's Development Index (HDI) - of wave surge (see article on political based on literacy, inversely correlated with the in the Dominican Republic. sustainable hurricanes (see graph 1). The quality higher the HDI, the fewer environment as the main factor alternative (with a 0.808 HDI value) has This postdisaster consensus stop importing natural States with (HDI of 0.937). The if tropical cyclones were the members of the community. difference between Cuban ultimate preparations for cyclones and environmental destruction. But only linked to environmental Florida's "hurricane parties" this introduces a notion of guilt. quality. Climate change is also may provide а explanation, another choice? but hypothesis is emerging.

correlation between the extent supply. of deforestation and incidence monthly income of \$30.5 people destroying our forests and of victims per exposed. Both cannot afford to use gas stoves environment we are sawing the variables follow the same trend or other energy sources. Given branch on which we sit. with a tight fit, as shown in the the scant remaining forests, graph. The Haitian part of the switching to other island of Hispaniola has low sources is a burning forest coverage (3.2% in 2000) issue in every sense of the term, with a high deforestation rate indeed a matter of life or death. (5.7% of remaining forest). In The recent rioting may just be a comparison the Dominican foretaste of future violence Republic is much greener, with Haiti is not the only poor a high degree of forest coverage country on the verge recorded

life Vietnam on page 14-15). There international of the Haitian their penalty

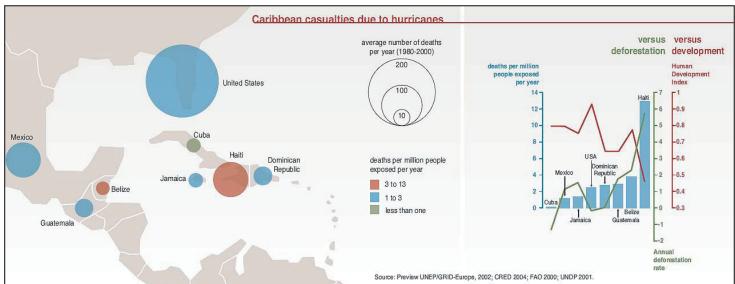
Firewood and charcoal represent environmental protection energy

of deforestation. countries in their predicament - Europe Vegetation protects from winds notably Burundi, Colombia, El http://www.grid.unep.ch/

better access to education, more and helps to stabilise the soil. Salvador, Guatemala, Jamaica, resources to buy equipment and Haiti's bare soils offer much less Madagascar, Nepal, Nicaragua, thus response capability, or resistance, which explains why Panama, Peru, Rwanda, Sri build more robust homes. The landslides caused most of the Lanka, Uganda and several West United Nations Development casualties. Mangrove forests African countries - suffer from Human signifi cantly reduce the impact high rates of deforestation and tension. The community expectancy and gross domestic are no mangroves in Haiti, urgently needs to provide solid product - is closely and compared with 69,600 hectares backing so they can achieve use of their proportion of people killed by Most of the media cited the poor environmental resources, replant forests and develop energy sources. people are killed. Yet Cuba in the population's vulnerability. Developed countries must also raw proportionately fewer casualties sounds like an indictment of materials which deplete the on average than the United poor environmental practice, as environment of the poorest

for Vulnerability to disasters is not partial Did Haitians really have the playing a part. Political and economical leaders must make Research has revealed an 89% 70% of Haiti's total energy bigger priority than at present. With an average They must understand that by

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Published in Environment & Poverty Times N°3, p.3 Special Edition for the World Conference on Disaster Reduction January 18-22, 2005, Kobe, Japan UNEP/GRID-Arendal http://www.environmenttimes.net/