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Environmental disasters intermit our well-being; thus, it is important for the human population to be prepared (adapted) to deal with hurricanes, fires, tornadoes, and other catastrophes. Furthermore, the fast-growing world requires an increase in industrial and agricultural manufacturing, which contributes to environmental contamination. To decrease the pollution level (mitigate) is currently one of the world's top priorities. A considered economic-environmental model aims to investigate a rational investment to environmental mitigation and adaptation, which is an important issue in designing long-term environmental policies and regulations on both international and national levels. A qualitative analysis of the model demonstrates the existence of a unique steady state and leads to determining the optimal balance between investing into adaptation measures and emission abatement depending on a country development level and its contribution to a global pollution stock. The model is calibrated on the available economic and climate data and predictions. Further directions and open questions are also highlighted. (Received August 13, 2014)