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Extreme Weather and Impacts of Climate Change on Water Resources in the Dobrogea Region

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© 2015, IGI Global. All rights reserved.The first part of the chapter presents general and specific issues concerning the use of hydroinformatic tools in hydraulic modeling as important step in decision-making activities in extreme situations such as floods. The special importance of these issues is the fact that currently cannot conceive a project related to water management without the use of computer modeling /simulation. It is shortly presented the usual simplified schematizations of real flow systems which are applied usually for flood modeling: one-dimensional (1D), two-dimensional (2D) or her combination. Based on the general principles of continuum mechanics the fundamental equations of hydrodynamics are deducted which stay on base of the river modeling. For the 1D schemes discussed the particular forms of the basic equations. To illustrate the above explanations in the next section modeling applications for several representative case studies will be presented using three known hydrodynamic/hydrological modeling packages, namely DUFLOW, HEC-RAS, MIKE-11.

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