

Climate change : inferences from paleoclimate and regional aspects

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Abstrak

Experts in climate and water sciences from Canada, the United States, Brazil, Denmark, Germany, Belgium, France, Serbia, and other European countries and the UNESCO gathered at the Serbian Academy of Sciences and Arts on the occasion of the 130th birthday anniversary of the geophysicist Milutin Milankovitch. The collection of their presentations is opened by an update on the climate situation after the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. Further topics include various issues of paleoclimatology, in particular as it helps reduce uncertainties from which prospects for climate change suffer, ecohydrology and climate change at the watershed scale, and regional climate models, which are discussed in terms of both their improved modeling and their use in studies of a polynya in the Antarctica and expected changes in the Mediterranean region.