GLOBAL WARMING EFFECT ON WORLD WATER CYCLE AND SUITABILITY

Sukru Dursun¹, Hysen Mankolli²

¹Selcuk University, Environmental Engineering Department, Konya - Turkey
²Agriculture University of Tirana, AgroEnvironmental & Ecology Department, Tirana – Albania
Email: sdursun@selcuk.edu.tr; mankollih@ubt.edu.al

ABSTRACT

Hydrological cycle and water resources were affected by climatic change. Climate change mainly driven by human activity is affecting back to human being in various aspects. Especially water, a necessity of all creatures on the earth, is closely related with the climate change, and a number of research projects have complied the knowledge of global hydrological cycles and world water resources over past, present, and future. In order to see this effect, a semi-distributed monthly water balance model was proposed and developed to simulate and predict the hydrological processes. GIS techniques were used as a tool to analyze topography, river networks, land-use, human activities, vegetation and soil characteristics. The model parameters were linked to these basin characteristics by regression and optimization methods. The model development will also be used to obtain an appreciation of the process controls of water balance in large heterogeneous catchments in semi-arid climates. Results of the studies also indicated that runoff is more sensitive to variation in precipitation than to increase in temperature. Climate change challenges existing water resources management practices by additional uncertainty. Integrated water resources management will enhance the potential for adaptation to change.

Keywords: Precipitation, water source, balance Climatic change; hydrological cycle, arid.

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Abstract (font size 10) maximum up to 250 words and key words.
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1. INTRODUCTION

2. MATERIAL AND METHODS

3. RESULTS AND DISCUSSION

4. CONCLUSION

5. REFERENCES

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