

research project



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developed by:

HYDRO | **MANAGEMENT**
CONSULTING ENGINEERS



Div. of Hydraulics and Environmental Engineering
Department of Civil Engineering
Aristotle University of Thessaloniki, GREECE

funded by:



2013-2015

Between October 2013 and June 2015, **Hydromanagement Consulting Engineers** has developed a research project entitled "*Water resources management on a watershed level under conditions of climate changes*" funded by the General Secretariat for Research and Technology of Greece.

The fact that the methodology for the implementation of the EU framework directive 60/2000 for a common action in the sector of water policies, which was incorporated in Greek legislation through the 3199/2003 law, does not include the introduction of the estimations made by the climate change models, formulates a gap in the development of the water resources management plans on a river basin level, since they will only be based on historical data, which, under the upcoming climate changes, will almost certainly not be able to cope with the future climate conditions. The present project aims at the minimization of this gap. More specifically, the aim of the project is to incorporate these climate change estimations into the water resources management plans.

Hydromanagement in collaboration with the Division of Hydraulics and Environmental Engineering of the Department of Civil Engineering of the Aristotle University of Thessaloniki, have formulated and developed the necessary methodology that will allow the introduction of the estimations of widely accepted international climate change models, for a number of water resources related parameters. In this way the formulated water resources management plans, will be able to

produce a more realistic approach of the immediate and long-term future conditions making the water resources management plans, more productive and able to ensure the sustainable development of each river basin.

Under this collaboration, a special software was developed that can edit and manage the vast volume of estimations available from the climate change models. At the same time, an observation network has been deployed in a special case-study area that of the watershed of Moudania in Halkidiki, in northern Greece. This network includes meteorological stations and groundwater measurement stations, using these field data, even during the small time period of the development of the project, to investigate their validity and to collect measurements and result to conclusions that will be useful in the evaluation of similar estimations in other regions as well.



Contact



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or through the web-site of the research project, at:

www.cc-hydromanagement.com

The monitoring network:

Two meteorological stations



Eight groundwater monitoring stations



The software:



www.cc-hydromanagement.com/software.html

