

Aikaterini Mazi

Scientific Staff, IERSD

PhD. Candidate, Hydrogeology, Stockholm University, exp. time of defence: Spring 2014

MSc., Science & Engineering of Water Resources, National Technical University of Athens, Greece, 06/2000

BSc., Geology, Aristotle University of Thessaloniki, Greece, 11/1993

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web: http://members.noa.gr/kmazi/K.Mazi.CV_Publications.pdf**PROFESSIONAL EXPERIENCE**

- 02/2001 – present: Staff Scientist – Hydrogeologist, IERSD/National Observatory of Athens
- 1996 – 2001 Scientist (on contract), National Observatory of Athens (Institute for Environmental Research & Sustainable Development and Geodynamics Institute) working on research projects funded by the Commission of European Communities (see below)
- 1995 – 1996 Secretary of the Greek Commission of Space Research and Technology
- 6-7/1990 Geologist (*Praktikum*), “Greek Bauxite of Elikon”, Distomo, Boiotia, Greece

AREAS OF EXPERTISE

Hydrogeology; application of GIS in hydrology

HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE

- Scholarship (1992), *State Scholarships Foundation (IKY) –ERASMUS* Fellow of the Commission of European Communities (University of Montpellier, France)
- Member of European Geophysical Union

PUBLICATIONS

Co-authored 8 papers published in refereed journals; 2 papers submitted to *Hydrology and Earth System Sciences* and to the *Journal Hydrology*, 59 citations in the Scopus DB. 14 conference presentations/posters.

Papers:

- Koussis A. D., K. Lagouvardos, K. Mazi, V. Kotroni, D. Sitzmann, J. Lang, H. Zaiss, A. Buzzi and P. Malguzzi (2003) Flood forecasts for an urban basin with an integrated hydro-meteorological model, *J. Hydrologic Engineering*, Vol. 8, No 1, p. 1-11.
 - Mazi K., A. D. Koussis, P. Restrepo-Posada and D. Koutsoyiannis (2004) A groundwater-based, objective-heuristic parameter optimisation method for the PRMS model: The Akrotiri Basin, Cyprus application, *Journal of Hydrology*, 290: 243-258; and also Erratum (2004): *J. Hydrology*, **299**: 160-161.
 - Koussis A. D., E. Georgopoulou, A. Kotronarou, K. Mazi, P. Restrepo, G. Destouni, C. Prieto, J.J. Rodriguez, J. Rodriguez-Mirasol, T. Cordero, C. Ioannou, A. Georgiou, J. Schwartz and I. Zacharias (2010) Cost-efficient management of coastal aquifers via recharge with treated wastewater and desalination of brackish groundwater: Application to the Akrotiri Basin and Aquifer, Cyprus, *Hydrological Sciences Journal*, 55(7), doi: 10.1080/02626667.2010.512469.
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- Koussis, A. D., K. Mazi and G. Destouni (2012) Analytical single-potential, sharp-interface solutions for regional seawater intrusion in sloping unconfined coastal aquifers, with pumping and recharge, *J. Hydrology*, **416–417**: 1–11.
- Mazi, K., A. D. Koussis and G. Destouni (2013) Tipping points for seawater intrusion in coastal aquifers under rising sea level, *Environ. Res. Lett.* **8 (1)** 014001 (6pp).

PARTICIPATION IN NATIONAL/EUROPEAN PROJECTS

- WERMED: *Weather-routing in the Mediterranean*, (Interreg IIIB MEDOCC project), 2005-2006. Phase 2: Climatology of the Mediterranean. WP2.1: Climatology of surface wind. Statistical analysis and evaluation of wind data in the Mediterranean: generation of maps and summary of results.
 - FLASH: *Observations, Analysis and Modeling of Lightning Activity in Thunderstorms for use in Short Term Forecasting of Flash Floods*, FP6 SUSTDEV-2005-3.II.1.2, September 2006-October 2010. WP 5: Applications in the Boietikos Kephisos Basin.
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