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EDUCATION

BSc Geology, 1993, Aristotelian University of Thessaloniki, Greece

MSc Water Resources Science and Engineering, 2000, National Technical University of Athens

FIELDS OF INTEREST

Hydrogeology; applied hydrologic modelling; application of GIS in hydrology

PUBLICATIONS

Publications in Refereed Journals

1. **Mazi K.**, A. D. Koussis and G. Destouni, Tipping points for seawater intrusion in coastal aquifers under rising sea level, *Environ. Res. Lett.* 8 (2013) 014001, doi:10.1088/1748-9326/8/1/014001
2. Koussis, A. D., **K. Mazi** and G. Destouni, 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, 2012.
3. Koussis, A. D., **K. Mazi**, S. Lykoudis and A.A. Argiriou, Reverse flood routing with the inverted Muskingum storage routing scheme, *Natural Hazards & Earth System Sciences*, 12: 217–227, doi:10.5194/nhess-12-217-2012, 2012.
4. 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, *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), 2010, doi: 10.1080/02626667.2010.512469.
5. Koussis A. D., E. Akylas and **K. Mazi**, Response of sloping unconfined aquifer to stage changes in adjacent stream II. Applications, *Journal of Hydrology*, 338: 73-84, 2007.
6. **Mazi K.** and A. D. Koussis, The 8 July 2002 storm over Athens: Analysis of the Kifissos River/Canal overflows, *Advances in Geosciences*, 7, 301–306, 2006, SRef-ID: 1680-7359/adgeo/2006-7-301, European Geosciences Union.
7. **Mazi K.**, A. D. Koussis, P. Restrepo-Posada and D. Koutsoyiannis, A groundwater-based, objective-heuristic parameter optimisation method for the PRMS model: The

Akrotiri Basin, Cyprus application, *Journal of Hydrology*, 290, 243-258, 2004; and also Erratum: *Journal of Hydrology*, 299, 160-161, 2004.

8. Koussis A. D., K. Lagouvardos, **K. Mazi**, V. Kotroni, D. Sitzmann, J. Lang, H. Zaiss, A. Buzzi and P. Malguzzi, "Flood forecasts for an urban basin with an integrated hydro-meteorological model", *J. Hydrologic Engineering*, Vol. 8, No 1, 1-11, 2003.

Conference Presentations / Posters

1. **Mazi K.**, G. Destouni and A. D. Koussis, Regional-scale assessment of tipping points for Mediterranean Coastal Aquifers, EGU2013-818; HS8.2.5.
2. **Mazi K.**, Tipping points for seawater intrusion in coastal aquifers under rising sea level, Navarino Environmental Observatory (NEO): The 2nd NEO Research Workshop: Climate and Environmental Change in the Mediterranean Region, Costa Navarino, Peloponnesos, Greece, October 26–27, 2012.
3. **Mazi K.**, A. D. Koussis and G. Destouni, Tipping points for seawater intrusion in coastal aquifers - Mediterranean case exemplification, Navarino Environmental Observatory (NEO): The 2nd NEO Research Workshop: Climate and Environmental Change in the Mediterranean Region, Costa Navarino, Peloponnesos, Greece, October 26–27, 2012.
4. Destouni G., N. Basu, M. J. Cohen, H. Dahlke, F. Jaramillo, J. Jarsjö, J.W. Jawitz, J. Juston, E.M. Karlsson, A.D. Koussis, S. Lyon, **K. Mazi**, J. Mård-Karlsson, C. Prieto, S. C. Rao, Y. van der Velde and N. Vercauteren, Hydro-Biogeochemical and Environmental-Management Functions of Wetland Networks in Landscapes, *9th INTECOL, International Wetlands Conference: WETLANDS IN A COMPLEX WORLD*, June 3-8, 2012, Orlando, Florida, USA.
5. **Mazi K.**, Climate change effects on seawater intrusion vulnerability of coastal aquifers, Navarino Environmental Observatory (NEO): Ecohydrology and Integrated Water Resource Management Workshop, Costa Navarino, Peloponnesos, Greece, October 20–26, 2011.
6. **Mazi K.** & A. D. Koussis, *Reverse Flood Routing with the Lag-and-Route Storage Model*, 12th Plinius Conference on Mediterranean Storms, September 2010, Corfu Island, Greece.
7. Koussis A. D., **K. Mazi**, S. Lykoudis, and A. Argyriou, *Reverse flood routing with the inverted Muskingum storage routing scheme*, 12th Plinius Conference on Mediterranean Storms, September 2010, Corfu Island, Greece.
8. Efstratiadis A., **K. Mazi**, A. D. Koussis and D. Koutsoyiannis, Flood modelling in complex hydrologic systems with sparsely resolved data, EGU2009-4157-1; HS5.3.
9. **Mazi K.** and A.D. Koussis, *Quantitative assessment of well vulnerability by an efficient 2-D backward transport model*, EGU2008-A-10433; HS9.1-1MO5P-0275.
10. Georgopoulou, E., Restrepo, P., Kotronarou, A., Koussis, A., **K. Mazi**, Gomez-Gotor, A., Rodriguez, J.J. & Destouni, G., A Decision Aid Tool for the management of coastal aquifers based on sea-intrusion control through recharge with treated wastewater and desalination of brackish groundwater, EGU2008-A-12311; IS22 - HS2.1/NP1.05-1TU2O-005.
11. Koussis A. D., **K. Mazi**, S. Lykoudis & A. Argyriou, *Groundwater Contamination: Identification of Source Signal by Time-Reverse Transport Computation with Filtering*, EGS - AGU - EGU Joint Assembly 2003, Nice, France.

12. Restrepo P. J., E. Georgopolou, **K. Mazi**, A. Kotronarou and A. D. Koussis, *Water Supply from Brackish Coastal Aquifers. 1. System Concept; 2. Natural Recharge Estimation; 3. Screening Model for an Optimal Artificial Recharge Strategy*, AGU Hydrology Days 2001, Colorado State University, April 2 - 5, 2001.
13. C. Clement, J.C. Lepine, A. Hirn, M. Sachpazi, **K. Mazi**, P. Charvis and N. Roussos, *Ionian Islands Subduction and Transform: Resolving the Crustal Part from OBS and Land Based Local Earthquake and Refraction Recording with Coincident Reflection Seismics*, S.17: 2636, IASPEI 1997, August 18-28, Thessaloniki, Greece.

Reports

Co-author of the following reports for the EU-funded research projects:

- **TELEFLEUR** – D10.1. Final form of Athens Demonstrator, with Appendix, 87 pages, February 2001, submitted to the 13th GD of the EU.
- **TELEFLEUR** – Final Project Report, Φεβρουάριος 2001, submitted to the 13th GD of the EU.
- **WASSER** – Final Project Report, Environment & Climate Programme, Contract No. ENV-CT97-0459, 171 pages and Appendices (I-VIII) 144, June 2001.
- “Flooding in Kephisos from the storm of July 8th 2002: Analysis of the rainfall records and the hydrologic-hydraulic impacts” (2006). Assisted Dr. A.D. Koussis in the preparation of the Report to the court-appointed expert.
- “Responsibilities and role of the local administration in the handling of natural disasters”, Report for the Institute of Local Administration, Athens (2007-2008). Assisted Dr. A.D. Koussis in the preparation of the Report’s section on hydrological disasters and risks.