CURRICULUM VITAE

KATERINA MAZI

PhD. Hydrogeologist

Senior Research Scientist (ΕΛΕ Β)
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EDUCATION

June 2014	*PhD* at the Department of Physical Geography and Quaternary Geology, Stockholm University
June 2000	*MSc* in *Science & Engineering of Water Resources*, National Technical University of Athens, Greece
November 1993	*BSc,* Geology, Aristotle University of Thessaloniki, Greece

DOCTORAL THESIS

Seawater intrusion risks and controls for safe use of coastal groundwater under multiple change pressures, Dissertations from the Department of Physical Geography and Quaternary Geology No 42, Stockholm University. US-AB, Stockholm, Sweden, 2014. Supervisor: Prof. G. Destouni.

MSc THESIS

Optimisation of parameters of a hydrologic model with the use of groundwater data, MSc. in "Science and Technology of Water Resources", NTUA, June 2000. Supervisors: Prof. D. Koutsoyiannis, Prof. A.D. Koussis.

FIELDS OF INTEREST

Hydrogeology; seawater intrusion in coastal aquifers; applied hydrologic modelling; field studies; hydrometry

SCIENTIFIC – PROFESSIONAL EXPERIENCE

16/03/2017 – today: Research Scientist (ΕΛΕ Β) IERSD, NOA

02/2001 – 03/2017 Staff Scientist – Hydrogeologist, Institute for Environmental Research & Sustainable Development, National Observatory of Athens

1996 – 2001	Researcher (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), Greece: PPC (ΔΕΗ) and GSRT (ΓΓΕΤ)
1995 – 1996	Administrative Experience: Secretary of the Greek Commission of Space Research and Technology
1990	Geologist (*Praktikum*), "Greek Bauxites of Elikon", Distomo, Boeotia

EXPERIENCE IN RESEARCH PROGRAMMES

Current Projects: Participation

ΝΗΣΟΣ: Emblematic Action of Green Islands in the context of the circular economy* [Εμβληματική Δράση Πράσινων Νησιών στα πλαίσια της κυκλικής οικονομίας] *ACTION - Emblematic actions in interdisciplinary scientific areas with a special interest in the connection with the productive tissue [*ΔΡΑΣΗ - Εμβληματικές δράσεις σε διαθεματικές επιστημονικές περιοχές με ειδικό ενδιαφέρον για την σύνδεση με τον παραγωγικό ιστό»*], ID *16618, Nr.: TAEDR-0537029.* ***Funded by Greece*** *[2.0 NATIONAL RECOVERY & RESILIENCE PLAN- ΕΘΝΙΚΟ ΣΧΕΔΙΟ ΑΝΑΚΑΜΨΗΣ ΚΑΙ ΑΝΘΕΚΤΙΚΟΤΗΤΑΣ]* ***and NextGeneration EU.***

Contribution in WP 1 and WP 3:

WP1: 1. List, evaluate and select optimal green solutions: 1) Energy autonomy, 2) Monitoring climate change, air quality and biodiversity, 3) Waste management, 4) Water management, 5) Sustainable mobility, 6) Maintenance infrastructure, 7) Tourism, 8) Port operations

Coordinator - Deliverable 1.2: Optimal practices in Green Islands

WP3: Water resources management

Partner - Deliverable 3.1: Water monitoring and early warning system for natural and man-made disasters

Partner - Deliverable 3.2: Water management study to avoid flooding and water pollution

CLIMPACT II: Support for upgrading the operation of the National Network for Climate Change* [Υποστήριξη της αναβάθμισης λειτουργίας του Εθνικού Δικτύου για την Κλιματική Αλλαγή]**. *Nr.: 2023NA11900001* (*ΟΠΣ 5201588*), March 2023 – March 2025. Funded by the ***Greek Ministry for Development.

Contribution regarding water resources in WP 1 – Data and Science related to CC [Δεδομένα και Επιστήμη σχετιζόμενη με ΚΑ].

Partner - Action 1.1: Data Base of parameters related to CC: a) Atmosphere, b) Sea, c) Paleoclimate, d) Inland waters.

Partner - *Action 1.4*: Maps of renewable energy sources of Greece based on climatic scenaria (wind, solar, hydrology).

Principal Investigator in *HYDRO-NET* Project: 2018 - 2021

HYDRO-NET: Hydro-Telemetric Networks of Surface Waters: Gauging instruments, smart technologies, installation and operation («Υδρο-Τηλεμετρικά Δίκτυα Επιφανειακών Υδάτων: οργανομετρία, έξυπνες τεχνολογίες, εγκατάσταση και λειτουργία»), **started 07/01/2018, duration 36 months**, N*OA budget 210.000 €.* ***Principal investigator for NOA.***

Funded by the Ministry for Economy & Development and the EU.

The project is Part (15) (Υποέργο 15) of the *Hellenic Integrated Marine and Inland Water Observing, Forecasting and Offshore Technology System, HIMIOFoTS* («Ελληνικό Ολοκληρωμένο Σύστημα Παρακολούθησης, Πρόγνωσης και Τεχνολογίας των Θαλασσών και των Επιφανειακών Υδάτων») (*MIS 5002739*), Action "Strengthening Research and Technology Infrastructures", Business Plan "Competitiveness, Entrepreneurship and Innovation" (Ε.Π. «Ανταγωνιστικότητα, Επιχειρηματικότητα και Καινοτομία»).

Funded by the Commission of European Communities

FLASH: *Observations, Analysis and Modeling of Lightning Activity in Thunderstorms for use in Short Term Forecasting of Flash Floods, Cordis FP6* SUSTDEV-2005-3.II.1.2, September 2006 – October 2010. **WP 5 - Hydrology:** ***Hydrological modelling of the Boietikos Kephissos Basin*****.**

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*****.**

TELEFLEUR: *Telematics-Assisted Handling of Flood Emergencies In Urban Areas*, (DG 13 *or IST*), January 1998 − December 2000**.** ***Calibration of the watershed model TELESIM and application in the modelling of flood flows in the Kephissos River Basin, Attica; creation and maintenance of the hydrological data base*****.**

WASSER*: Utilisation of Groundwater Desalination & Wastewater Reuse in the Water Supply of Seasonally-stressed Regions, (*DG 12 *Research),* February 1998 − March 2001. ***Modelling of the hydrologic balance of the Akrotiri Basin and Aquifer of Cyprus; calibration and validation of the hydrologic model MMS-PRMS/USGS*****.**

SEIS-GREECE: *Detection of deep structure in the Ionian and Aegean seas, using Seismic Reflection and Refraction methods to locate seismogenic faults, 1996.* ***Participation in fieldwork: installation and monitoring of a mobile telemetric network of seismographs*****.**

Funded by

GSRT* (ΓΓΕΤ) – *DEUCALION* (ΔΕΥΚΑΛΙΩΝ, CONTRACT 09ΣΥΝ-31-798)*: *Assessment of flood flows in Greece under conditions of hydroclimatic variability: Development of physically-established conceptual-probabilistic framework and computational tools* (3/2011 – 7/2014). ***Hydrogeological modelling and flow simulations; hydrometry*.**

From 01/2014-31/07/2014: Scientific responsible for this project and its economic management.

Public Power Corporation of Greece* (ΔΕΗ)*: *Estimation of the Wind Power Potential of the Island of Crete*, 1997***.*** ***Use of GIS (Arc-Info) for the construction of the digital terrain model of Crete Island, Greece*.**

AUTO-SEISMO-GEOTECH: *Estimation-Prevention of the Seismic Risk of Great Cities, 1995-1996.* ***Estimation and assessment of the seismo-tectonic data of the greater area of Crete using GIS (Arc-Info)*.**

CITATIONS (16/12/2024)

Web of Science: *h-index: 12*

Sum of the Times Cited: **666** (*All DB Collection*) – 90% 3rd parties' references

Scopus: *h-index: 13*

Sum of the Times Cited: **694** – 90% 3rd parties' references

Google Scholar: *h-index: 13, h10-index: 18*

Sum of the Times Cited: **1025**

PUBLICATIONS

Publications in Refereed Journals

1. Dimitriou E., A. Efstratiadis, I. Zotou, A. Papadopoulos, T. Iliopoulou, G-K. Sakki, **K. Mazi**, E. Rozos, A. Koukouvinos, A.D. Koussis, N. Mamassis and D. Koutsoyiannis, 2024. Post-analysis of Daniel extreme flood event in Thessaly, Central Greece: Practical lessons and the value of state-of-the-art water monitoring networks, *Water*, *16*(7), 980. doi:*10.3390/w16070980*
2. Rozos E., V. Bellos, I. Kalogiros and **K. Mazi**, 2023. Efficient Flood Early Warning System for Data-Scarce, Karstic, Mountainous Environments: A Case Study, *Hydrology*, 10, 10. doi: *10.3390/hydrology10100203*
3. **Mazi K.**, A.D. Koussis, S. Lykoudis, B.E. Psiloglou, G. Vitantzakis, N. Kappos, D. Katsanos, E. Rozos, I. Koletsis and T. Kopania, 2023. Establishing and Operating (Pilot Phase) a Telemetric Streamflow Monitoring Network in Greece, *Hydrology*, 10, 19. doi: *10.3390/hydrology10010019.* **Editors's choice**:
   https://twitter.com/Hydrology_mdpi/status/1668874554243190784
4. Rocha C., S. Jiang, J.S.P. Ibánhez, Q. Yang, **K. Mazi** and A.D. Koussis, 2022. The effects of subterranean estuary dynamics on nutrient resource ratio availability to microphyto-

benthos in a coastal lagoon, *Science of the Total Environment* (STOTEN 157522). doi: *10.1016/j.scitotenv.2022.157522*

5. Rozos E., **K. Mazi** and S. Lykoudis, 2022. On the Accuracy of Particle Image Velocimetry with Citizen Videos-Five Typical Case Studies, *Hydrology*, 9(5), 72. doi: *10.3390/hydrology9050072*
6. Koussis A.D., P. Dimitriadis, S. Lykoudis, N. Kappos, D. Katsanos, I. Koletsis, B. Psiloglou, E. Rozos and **K. Mazi**, 2022. Discharge estimation from surface-velocity observations by a maximum- entropy based method, *Hydrological Sciences Journal, 67:3, 451-461.* doi: 10.1080/02626667.2022.2030059
7. Mamassis N., **K. Mazi**, E. Dimitriou, D. Kalogeras, N. Malamos, S. Lykoudis, A. Koukouvinos, I. Tsirogiannis, I. Papageorgaki, A. Papadopoulos, Y. Panagopoulos, D. Koutsoyiannis, A. Christofides, A. Efstratiadis, G. Vitantzakis, N. Kappos, D. Katsanos, B. Psiloglou, E. Rozos, T. Kopania, I. Koletsis and A.D. Koussis. *OpenHi.net: A synergistically built, national-scale infrastructure for monitoring the surface waters of Greece*, *Water 2021, 13, 2779.* doi*:* 10.3390/w13192779
8. **Mazi K.**, E. Akylas and A.D. Koussis, 2021. Algebraic estimation of the specific storage from slug tests in confined aquifers in the overdamped case, *Hydrogeology J.,* doi: 10.1007/s10040-021-02382-4
9. Rozos E., **K. Mazi** and A.D. Koussis, 2021. Efficient Stochastic Simulation of Seawater Intrusion, With Mixing, in Confined Coastal Aquifers, *Frontiers in Water*, 3: 720557, doi: 10.3389/frwa.2021.720557
10. Rozos E., **K. Mazi** and A.D. Koussis, 2021. Probabilistic Evaluation and Filtering of Image Velocimetry Measurements, *Water*, 13 (16), 2206, doi: 10.3390/w13162206
11. Rozos, E, P. Dimitriadis, **K. Mazi** and A. D. Koussis, 2021. A Multilayer Perceptron Model for Stochastic Synthesis, *Hydrology*, 8(2): 67, doi: 10.3390/hydrology8020067
12. **Mazi, K.** and A.D. Koussis, 2021. Beyond pseudo-coupling: Computing seawater intrusion in coastal aquifers with decoupled flow and transport equations, *J. Hydrology*, 593, 125794, doi: 10.1016/*j.jhydrol*.2020.125794
13. Rozos E., P. Dimitriadis, **K. Mazi**, S. Lykoudis and A.D. Koussis, 2020. On the Uncertainty of the Image Velocimetry Method Parameters, *Hydrology*, 7(65): 12 pp., doi: 10.3390/hydrology70300652020.
14. Koussis, A.D. and **K. Mazi**, 2018. Corrected interface-flow model for seawater intrusion in confined aquifers: relations to the dimensionless parameters of variable-density flow, *Hydrogeology Journal*, 26(8), 2547-2559, doi: 10.1007/s10040-018-1817-z.
15. Thorslund J., J. Jarsjö, F. Jaramillo, J. Jawitz, S. Manzoni, N. B. Basu, S. Chalov, M. Cohen, I. Creed, R. Goldenberg, A. Hylin, Z. Kalantari, A. Koussis, S. Lyon, **K. Mazi**, J. Mård, K. Persson, J. Pietroń, C. Prieto, A. Quin, K. Van Meter and G. Destouni, 2017. Wetlands as large-scale nature-based solutions: status and challenges for research, engineering and management, *Ecological Engineering*, 108: 489-497, doi: 10.1016/j.ecoleng.2017.07.012
16. **Mazi K.**, A.D. Koussis and G. Destouni, 2016. Quantifying a sustainable management space for human use of coastal groundwater under multiple change pressures, *Water Resources Management*, 30(12): 4063-4080, doi: 10.1007/s11269-016-1363-1 and also Erratum: 30(12), 4081, doi: 10.1007/s11269-016-1427-2

17. Koussis, A.D. and **K. Mazi**, 2016. Reverse flood and pollution routing with the lag-and-route model, *Hydrological Sciences Journal*, 61:10, 1952-1966, doi: 10.1080/02626667.2015.1061194
18. Koussis, A.D., **K. Mazi**, F. Riou and G. Destouni, 2015. A correction for Dupuit-Forchheimer interface flow models of seawater intrusion in unconfined coastal aquifers, *J. Hydrology,* **525**: 277–285, doi: 10.1016/j.jhydrol.2015.03.047
19. **Mazi K.**, A.D. Koussis and G. Destouni, 2014. Intensively exploited Mediterranean aquifers: resilience to seawater intrusion and proximity to critical points, *Hydrology and Earth System Sciences* (HESS), **18**: 1663–1677, doi:10.5194/hess-18-1663-2014
20. **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***, 014001, doi:10.1088/1748-9326/8/1/014001
21. 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, doi: 10.1016/j.jhydrol.2011.11.012
22. Koussis, A.D., **K. Mazi**, S. Lykoudis and A.A. Argiriou, 2012. 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
23. 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
24. Koussis A.D., E. Akylas and **K. Mazi**, 2007. Response of sloping unconfined aquifer to stage changes in adjacent stream II. Applications, *J. Hydrology*, **338**: 73-84. DOI: 10.1016/j.jhydrol.2007.02.030
25. **Mazi K.** and A.D. Koussis, 2006. The 8 July 2002 storm over Athens: Analysis of the Kifissos River/Canal overflows, *Advances in Geosciences*, *European Geosciences Union*, **7**: 301–306, hal-00296930
26. **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. *J. Hydrology*, **290**: 243-258, DOI: 10.1016/j.jhydrol.2003.12.006 ; and also Erratum: *Journal of Hydrology*, **299**: 160-161.
27. 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*, **8**(1): 1-11.

Conference Presentations / Posters

1. **Mazi K.**, A.D. Koussis, S. Lykoudis, G. Vitantzakis, P. Dimitriadis, N. Kappos, B. Psiloglou, D. Katsanos, I. Koletsis, E. Rozos and T. Kopania, HYDRO-NET: Hydro-telemetric Network for surface waters – Innovations and Prospects, *EGU 2021*: *EGU21-14956, EGU General Assembly*.

2. Efstratiadis A., N. Mamassis, A. Koukouvinos, D. Koutsoyiannis, **K. Mazi**, A.D. Koussis, S. Lykoudis, E. Dimitriou, N. Malamos, A. Christofides and D. Kalogeras, Open Hydrosystem Information Network: Greece's new research infrastructure for water, *EGU 2020: Geophysical Research Abstracts, EGU2020-4164, EGU General Assembly*.
3. **Mazi K.** and A. D. Koussis, The pseudo-coupled approximation of the variable-density flow model of seawater intrusion in coastal aquifers revisited, *EGU 2019: Geophysical Research Abstracts, Vol. 21, EGU2019-13111, EGU General Assembly*.
4. Efstratiadis A., Mamassis N., Koukouvinos A., **Mazi A.**, Dimitriou E. and D. Koutsoyiannis, Strategic plan for establishing a national-scale hydrometric network in Greece: challenges and perspectives, *EGU 2019: Geophysical Research Abstracts, Vol. 21, EGU2019-16714, EGU General Assembly*.
5. Ntigkakis C., G. Markopoulos-Sarikas, P. Dimitriadis, T. Iliopoulou, A. Efstratiadis, A. Koukouvinos, A. Koussis, **K. Mazi**, D. Katsanos and D. Koutsoyiannis, Hydrological investigation of the catastrophic flood event in Mandra, Western Attica, *EGU 2018*: *Geophysical Research Abstracts, Vol. 20, EGU2018-17591, EGU General Assembly*.
6. **Mazi K.** and A. D. Koussis, On the modelling concept of seawater intrusion in an aquifer as uncoupled flow and transport in the region above an interface, SWIM-APCAMM 2016, Cairns, Queensland Australia, 4-8 July, 2016.
7. Zarkadoulas A., K. Mantesi, A. Efstratiadis, A. Koussis, **K. Mazi**, D. Katsanos, A. Koukouvinos and D. Koutsoyiannis, A hydrometeorological forecasting approach for basins with complex flow regime, *EGU 2015*: HS4.1/AS1.22/GM7.12/NH1.10.
8. **Mazi K.**, G. Destouni and A. D. Koussis, Evaluating seawater intrusion at the regional-scale in intensely exploited coastal aquifers, *NGL Annual Science Meeting*, Oskarshamn Sweden, 7-8 November, 2013.
9. **Mazi K.**, G. Destouni and A. D. Koussis, Regional-scale assessment of tipping points for Mediterranean Coastal Aquifers, *EGU* 2013: 818; HS8.2.5.
10. **Mazi K.**, A. D. Koussis and G. Destouni, 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.
11. **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.
12. 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.
13. **Mazi K.**, A sharp-interface analytical solution of sea-water intrusion in sloping coastal aquifers, *Navarino Environmental Observatory (NEO): Ecohydrology and Integrated Water Resource Management Workshop,* Costa Navarino, Peloponnesos, Greece, October 20–26, 2011.

14. **Mazi K.** and A. D. Koussis, Reverse Flood Routing with the Lag-and-Route Storage Model, *12th Plinius Conference on Mediterranean Storms*, September 2010, Corfu Island, Greece.
15. 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.
16. 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.
17. **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.
18. 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.
19. **Mazi K.** and A. D. Koussis, The 8 July 2002 storm over Athens: analysis of the Kifissos River/Canal overflows, *7th Plinius Conference on Mediterranean Storms*, Creta Island, October 2005.
20. 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.
21. Restrepo P. J., E. Georgopoulou, **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.
22. Clement C., 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.

Publications for the General Public

Interview for the https://sustainablekos.gr/

Proposals for the Management of the Water Resources of the Island of Kos (*in Greek*). https://sustainablekos.gr/skepseis-kai-mia-protasi-gia-tin-eniaia-diacheirisi-ton-ydatikon-poron-tis-ko/ (last access 15/12/2024)

Interview to Shannon Palus for *Hakai Magazine,* 2015

Shannon Palus, "Water Wars: Seeping Saltwater is Threatening Our Drinking Water," *Hakai Magazine*, April 22, 2015 http://bit.ly/1aRLsf8

Reports

1. Contributor/editor: A.D. Koussis, and **K. Mazi** in

Christelis V, Al-Jawad J, Hughes A., 2024. Multi-fidelity modelling for efficient analysis of subsurface variable-density flows. *British Geological Survey Internal Report*, IR/24/008. 11pp.

2. Co-ordinator, Editor, Co-Author of the **Deliverable 1.2** for the ***ΝΗΣΟΣ*** Project (*in Greek*):

   Mazi K., Deliverable Π1.2: Βέλτιστες πρακτικές πράσινων νησιών [*Best practices in Green Islands*], pp. *299* (& *Appendices*), July 2024.

3. Co-author of the following technical reports for the ***HYDRONET*** Project (*in Greek*):

   - Mazi K., Deliverable 1.1: Minutes of internal meetings and meetings with Partners and other agencies, 53 pages, 2021.
   - Mazi K., Deliverable 1.2: Publicity, 253 pages, 2021.
   - Mazi K., N. Kappos, D. Katsanos, T. Kopania, I. Koletsis, S. Lykoudis, E. Rozos, B.E. Psiloglou and A.D. Koussis. Deliverable 5.1: *Hydro-telemetric network fully developed and operating* – New network *HYDRONET*, 85 pages, 2021.
   - Mazi K., N. Kappos, D. Katsanos, T. Kopania, I. Koletsis, S. Lykoudis, E. Rozos, B.E. Psiloglou and A.D. Koussis. Deliverable 5.2: *Maintenance, upgrading and expansion of the hydrometric network of the EAA "DEUCALION" in Attica-Boeotia and Peloponnese* – New network *HYDRONET*, 56 pages, 2021.

4. Co-author of the following technical reports for the ***DEUCALION*** Project (in Greek):

   - Koussis A.D. and K. Mazi, *Theoretical documentation of flood forecasting system*, Contractors: ETME Peppas & Collaborators, Grafeio Mahera, Department of Water Resources and Environmental Engineering – NTUA, National Observatory of Athens, 8 pages, September 2014.
   - Katsanos D., Koussis A.D., K. Mazi and F. Pierros, *Theoretical documentation of numerical simulation of rainfall*, Contractors: ETME Peppas & Collaborators, Grafeio Mahera, Department of Water Resources and Environmental Engineering – NTUA, National Observatory of Athens, 15 pages, September 2014.

5. Co-Author of "Flooding in Kephissos from the storm of July 8th 2002: Analysis of the *rainfall records and the hydrologic-hydraulic impacts*", September 2006. Report to the court-appointed expert. Scientific Responsible Dr. A.D. Koussis.
6. Co-Author of "*Responsibilities and role of the local administration in the handling of natural disasters*", Section on *Hydrological Disasters and Risks*, Report for the Institute of Local Administration, Athens (2007-2008). Scientific Responsible Dr. A.D. Koussis.
7. Co-author of the following reports for the EU-funded research project: ***TELEFLEUR***
   - D2.1 World Wide Web page
   - D3.1 Report on user requirements analysis
   - D3.2 Command Centre: Specs and 1st Design
   - D3.3 Data Bases: Met/Hydro, monitoring & communications infrastructure
   - D8.1 Reports on Athens Demonstrator (preliminary operations manual), after: a) simulating flood emergencies with historic data (α and β versions); validation with real time flooding

- D10.1 Final form of Athens Demonstrator, with Appendix, 87 pages, February 2001, submitted to the 13th GD of the EU.
- Final Project Report, February 2001, submitted to the 13th GD of the EU.

8. Co-author of the following reports for the EU-funded research project: ***WASSER***
   - Final Project Report, Environment & Climate Programme, Contract No. ENV-CT97-0459, 171 pages and Appendices (I-VIII) 144, June 2001.

INTERNATIONAL SCIENTIFIC COOPERATIONS

- Dr. Vasileios Christelis, BGS, Nottingham, UK
- Prof. Carlos Rocha, Trinity College Dublin, Dublin 2, Ireland
- Prof. Evangelos Akylas, Department of Civil Engineering and Geomatics, Cyprus University of Technology

REVIEWER

Book Chapter review

Instrumentation and Measurement Technologies for Water Cycle Management, 1st ed. 2022, Editors: Anna Di Mauro, Andrea Scozzari, Francesco Soldovieri. Chapter: **Optical spectroscopy for on line water monitoring, by** G. Testa, G. Persichetti, R. Bernini, Springer Water Series, 480pp.

Journals

Hydrological Sciences Journal

Water Journal

Groundwater for Sustainable Development

Water Resources Management

Advances in Water Resources

Hydrology

Scientific Reports

DISTINCTIONS

Scholarship (1992), ***State Scholarships Foundation*** (IKY) – *ERASMUS* Fellow of the Commission of European Communities.

LANGUAGES

English – Certificate of Proficiency in English, 03/03/2001

German – Goethe Institut Mittelstuffe, 01/07/1986

COMPUTER SKILLS

HYDROLOGIC/HYDRAULIC MODELS

Precipitation-Runoff Modelling System (PRMS – MMS) USGS

TELESIM – Software for the hydrologic/hydraulic simulation of stream runoff

MAD-PD Solute transport in groundwater

FEFLOW – WASY Software

GEOGRAPHIC INFORMATION SYSTEMS: *MAPINFO, ARCINFO, QGIS*

PROGRAMMING: *VISUAL BASIC (EXCEL), FORTRAN*

SEMINARS - COURSES

23/06 - 03/07/2013	***The Subtropical Frontier: A summer school on climate variability and change in the Subtropics**, Navarino Environmental Observatory, Messenia, GR*
06/09 - 18/09/1998	***Palaeohydrological Methods In Groundwater and Waste Management,** British Geological Survey, Nottingham, UK*
28/10 - 23/11/1996	***Wide Aperture Reflection Profiling (WARP), Processing - Inversion - Modelling - Microseismicity Data Analysis,** Universitaet Hamburg, Institut fuer Geophysik, Hamburg, DE*
01/10 - 22/12/1995	***Geographical Information Systems (UNIX),** National Technical University of Athens, GR*
01/09 - 25/10/1994	***Photointerpretation – Remote Sensing. Analogue and Digital Methods, Techniques and Applications,** National Technical University of Athens, GR*
09/1993-01/1994	***Geographical Information Systems (PC),** GR*