

# **CURRICULUM VITAE**

## **LAMPROS VASILIADES**

Permanent Teaching Staff (EDIP) with specialization in  
“Hydrology and Modelling of Water Resources”  
Department of Civil Engineering, University of Thessaly, Volos, Greece.  
BSc Environmental Science, MSc Environmental Engineering,  
PhD in Hydrology and Water Resources.

FEBRUARY 2021

**CURRICULUM VITAE**

Family name		Given name		Title (Mr., Dr., Ir...)	
VASILIADES		LAMPROS		Dr.	
Year of birth	Country of birth	Nationality/Nationalities			
1972	GREECE	GREEK			
Address				E-mail	
Department of Civil Engineering, University of Thessaly, 38334 Volos, Greece				<a href="mailto:lvassil@uth.gr">lvassil@uth.gr</a> <a href="mailto:lvassil@gmail.com">lvassil@gmail.com</a>	
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+30 2421074115 (Off.) +30 2421400454 (Home)		+30 2421074169		+30 6937118114	
European Community Languages spoken (best first)					
Greek (excellent)		English (excellent)		Italian (limited)	
Currently working for (organisation)					Since (yr.)
University of Thessaly, Volos, Greece					1998
<b>Academic qualifications</b>					
<ul style="list-style-type: none"> <li>• PhD in Hydrology and Water Resources, Department of Civil Engineering, University of Thessaly, Volos, Greece (2005-2010).</li> <li>• M.Sc. Environmental Engineering, Department of Civil Engineering, University of Newcastle Upon Tyne, U.K. (1995-1996).</li> <li>• B.Sc. Environmental Science, Department of Environmental Studies, University of the Aegean, Greece (1990-1995).</li> </ul>					
<b>Professional experience</b>					
<ul style="list-style-type: none"> <li>• Permanent Teaching and Research Staff, Division of Hydraulics and Environmental Engineering, Department of Civil Engineering, University of Thessaly, Volos, Greece (2005 to present). Duties responsibilities: Management and implementation of research/educational programs of the Hydraulics sector, Department of Civil Engineering, Scientific and technical support in the hydraulics sector for undergraduate and postgraduate studies, Sessional Lecturer (Greek Presidential Decree 407/80) for undergraduate and postgraduate courses in civil engineering department, Researcher in water and environmental resources projects [project proposals, project implementation (managerial and scientific support), dissemination activities (workshops, training schools, international conferences, stakeholder information activities etc.)].</li> <li>• Researcher/Consultant on water resources, environmental, hydrological and hydraulics studies in public and private sector (2004-present).</li> <li>• Environmental, hydrological and GIS Studies in public and private sector, self-employed (1998 to 2004).</li> <li>• Scientific Researcher on contract, Department Management of Rural Environment &amp; Natural Resources, University of Thessaly, Volos, Greece (1998 to 2004)</li> <li>• Scientific Consultant in Professional Educational Centres for environmental education (1998 to present).</li> </ul>					

### Teaching Activities

- Undergraduate Courses, Department of Civil Engineering:
  - 1) Geographic Information Systems (Compulsory 5<sup>th</sup> Semester) (Academic Year 2014-2015 to present)
  - 2) Hydrologic Modelling and Forecasting (Elective 8<sup>th</sup> Semester) (2014-2015 to present)
  - 3) Engineering Hydrology (Compulsory 6<sup>th</sup> Semester) (Academic Years 2012-2013, 2017-2018 to present)
  - 4) Management of Extreme Hydrological Phenomena (Elective 9<sup>th</sup> Semester) (1/2 of course) (2017-2018 to present)
  - 5) Spatial Analysis Techniques and Remote Sensing Applications in Civil Engineering (Elective 9<sup>th</sup> Semester) (1/2 of course) (2017-2018 to present)
  - 6) Reservoirs & Dams (1/2 of course) (Elective 9<sup>th</sup> Semester) (2011-2012 to 2016-2017)
  - 7) Water Resources Management (Compulsory 8<sup>th</sup> Semester) (Academic Year 2016-2017)
- Postgraduate Courses:
 

*MSc Program "Analysis and Design of Energy Infrastructure Constructions"*

  - 1) Reservoir Design for Hydroelectric Power Plants (1/2 of course) (Autumn Semester of Academic Year 2018-2019 to present)
  - 2) Systems Modelling of Surface Water and Groundwater Resources (1/2 of course) (Autumn Semester of Academic Year 2013-2014)

*MSc Program "Sustainable Management of Environmental Change and Cyclical Economy"*

  - 3) Geospatial Technologies for Environmental Management (1/4 of course) (Spring Semester of Academic Year 2018-2019 to present)

*MSc Joint Greek-French Program "Management of Hydrometeorological Hazards - Hydrohasards"*

  - 4) Droughts (Spring Semester of Academic Year 2010-2011 to 2015-2016)
  - 5) Floods (1/2 of course, Spring Semester of Academic Years 2010-2011 to 2015-2016)
  - 6) Hydrohazard Forecasting (1/3 of course, Spring Semester of Academic Years 2010-2011 to 2015-2016),
  - 7) GIS and Remote Sensing Applications in Hydrohazards Analysis. (1/2 of course Spring Semester of Academic Year 2014-2015).
- Teaching Assistant, Department of Civil Engineering, University of Thessaly (from 2005 to 2010)  
Undergraduate Courses: 1) Hydrology, 2) Stochastic Hydrology, 3) Dams & Reservoirs and 4) Irrigation & Land Reclamation Works
- Teaching Assistant, Department Management of Rural Environment & Natural Resources, University of Thessaly (from 1998 to 2004)  
Courses: 1) Hydrology, 2) Environmental Physics, 3) Topography-Cartography, 4) Wastewater Disposal & Protection of Water Environment, 5) Climate Change & Natural Resources, 6) Water Resources Management, 7) Environmental Impact Assessment, and 8) Application of New Technologies in the Design of Rural Environment
- Instructor in Professional Educational Centres for environmental issues (1998 to present)

### Participation in COST Actions

- "COST CA15206: Payments for Ecosystem Services (Forests for Water) (PES). (2016-2020). National Substitute Representative
- "COST ES1404: A European network for a harmonised monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction. (2016-2018). National Representative
- "European procedures for flood frequency estimation (FloodFreq)" – COST Action ES0901. (2010-2013). National Substitute Representative

### Research Interests

- Management and implementation of research programs focused on water resources and environmental management
- Hydrologic simulation of watersheds with conceptual, stochastic and distributed models,
- Methodologies for the estimation of floods and droughts,
- Integrated water resources management,
- Applications of GIS and Remote Sensing in hydrology and water resources management,
- Impacts of climate change and land use change on water resources,
- Hydroinformatics,
- Temporal and spatial distribution of hydrometeorological parameters,
- Watershed water quality simulation,
- Natural environmental hazards,
- Environmental impact assessment of hydrotechnical projects

### Member of the following Associations and Scientific Bodies

- Greek Committee for Water Resources Management
- Hellenic Hydrotechnical Union
- Hellenic Meteorological Society (HMS)
- European Geophysical Union (EGU)
- European Water Resources Association (EWRA)
- International Association of Hydrological Sciences (IAHS)
- International Environmental Modelling and Software Society (iEMSs)
- Global Network for Environmental Science and Technology (Global Nest)

### Other significant training and skills

- One week summer school in “Applications of GIS in Meteorology and Climatology) organised by COST 719 program, 26-30 September 2005, Florence, Italy.
- One week seminar in ArcView 3.1 and ArcView Spatial Analyst organised by Marathon Data Systems, Athens, Greece.
- Two-month seminar in AUTOCAD 13-14.
- Summer training in the Prefecture of Lesvos, Greece for assessing the bathing water quality of Lesvos beaches and the evaluation of the operation and control of biological treatment plants of hotel units.
- Computing skills in hydraulic, hydrologic and environmental modelling - statistical and mathematical analysis - GIS and remote sensing modelling.
- Member of the Organizing Committee of International Symposium “GIS and Remote Sensing: Environmental Applications”, 7-9 November 2003, Volos, Greece.
- Member of the Organizing Committee of the 3rd Panhellenic Meeting of HYDROMEDON Network in “Hydrology and Water Resources”, 3 November 2006, Volos, Greece.
- Member of the Organizing Committee of International Conference on “Advanced Methods for Flood Estimation in a Variable and Changing Environment”, October 2012, Volos, Greece.
- Member of the Organizing and Scientific Committee of the 3rd International Electronic Conference on Water Sciences: “Hydrological Extremes and Related Risk and Uncertainty”, November 2018 <https://sciforum.net/conference/ECWS-3>.
- Participation in more than 40 international and national scientific conferences on hydrology, water resources, geosciences and environment (with presentation).

- Reviewer of the Greek General Secretariat for Research and Technology for evaluation of national projects in hydrology sector in higher education.
- Member of Editorial Board of the Journal Water (<http://www.mdpi.com/journal/water/editors>) (2018-Present).
- Member of Editorial Board of the Journal Earth (<https://www.mdpi.com/journal/earth/editors>) (2020-Present).
- Reviewer in international scientific journals (<https://publons.com/a/1000627/>): Advances in Geosciences, Advances in Meteorology, Agricultural Water Management, Atmosphere, Applied Water Science, Climate Dynamics, Desalination and Water Treatment, Environmental Processes, European Water, Fresenius Environmental Bulletin, Geosciences, Global NEST Journal, Hydrological Processes, Hydrology Research, International Journal of Climatology, International Journal of Water, Journal of Hydro-Environment Research, Journal of Hydrology, Journal of Spatial Hydrology, Natural Hazards and Earth System Sciences, Regional Environmental Change, Science of the Total Environment, Stochastic Environmental Research and Risk Assessment, Theoretical and Applied Climatology, Water, Water Policy, Water Resources Management, Water Science and Technology: Water Supply.
- Publons Peer Review Awards 2018: Top 1% of reviewers in Environment/Ecology for number of reviews in 2017-2018.
- Publons Peer Review Awards 2018: 2<sup>nd</sup> of Top 10 reviewers in Water Journal for number of reviews in 2017-2018.

#### **Participation in Scientific Research and Educational Programs**

- “Erasmus+ teaching mobility at the University of Messina Italy” – Erasmus+ Staff Mobility for Teaching, Dipartimento di Ingegneria - Università di Messina (06/05/2019-10/05/2019).
- “A European network for a harmonised monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction (Harmosnow)” – ESSEM COST Action ES1404 (2016-2018).
- “Flood Risk Management Plans of Thessaly, Epirus and Sterea Ellada Water Departments”, Special Secretariat for Water, Ministry of Environment & Energy, G. Karavokiris & Associates Consulting Engineers, (2015-2017).
- “MATHematical Modeling of Microcystis aeruginosa as a KEy-player in Lakes under REconstruction (LAKEREMAKE)”, Hellenic General Secretariat for Research and Technology, Action ARISTEIA II, Coordinator: Assistant Prof. Chr. Laspidou, (2014-2016).
- “Development of Digital courses at the University of Thessaly” Research Committee of the University of Thessaly (2015).
- “Irrigation development projects from Pinios river for Land and Reclamation purposes”, Region of Thessaly, (2014).
- “Contemporary Environmental and Technological Applications for the Monitoring, Management and Evaluation of Water Resources Systems” - Long Life Education Programme for Updating Knowledge of University Graduates (PEGA), Ministry of Education and Religious Affairs-Project: 144\_20\_1.2\_2. Coordinator: Prof. A. Loukas, (2014-2015).
- “Development of an Integrated Water Resources Environmental and Socioeconomic Modeling System - Application to the Restored Lake Karla (DIWRESMSARLKT)”. Greek Ministry of Education. Program Archimedes III, Coordinator: Prof. N. Samaras, (2012-2014).
- “Development of an integrated monitoring and management system of water resources for rural watersheds under climate change conditions (HYDROMENTOR)” - General Secretariat for Research and Technology, National Action “Cooperation”, Coordinator: Prof. A. Loukas, Budget: 450,000 € (2011-2014).

- “Sustainable Use of Irrigation Water in the Mediterranean Region (SIRRIMED)” – FP7-KBBE-2009-3 – Proposal Reference Number: FP7-245159. Scientific Responsible: Dr. Juan José Alarcón, Budget: 4,050,000 € (2010-2013).
- “Agricultural Innovations in Mediterranean Regions (NOVAGRIMED)” – Interreg IV MED program. Scientific Responsible: Conseil Régional Provence-Alpes-Côte d'Azur Provence - Alpes - Côte d'Azur (France). Budget: 1,850,000 € (2010-2011).
- “Reconnaissance Study of Land Subsidence in Karla Municipality”. Municipality of Karla, Scientific Responsible: Assoc. Prof. A. Loukas, (2010).
- An exercise to assess research needs and policy choices in areas of drought (XEROCHORE)” 7th Framework Program - FP7-ENV-2007-1 (ENV.2007.1.3.3.3.) Grant agreement no.: 211837, Scientific Responsible: Dr. Anil Markandya, Budget: 1,800,000 € (2008-2010).
- “Reconnaissance Study of Dam and Reservoir Development in the Position of Gavroneri Stomiou”. Municipality of Evrimenon, Scientific Responsible: Assoc. Prof. N. Mylopoulos, (2009).
- “OpenMI-Life”. EC Life – Environment Program. Coordinator: Dr. R. Moore, Budget: 4,000,000 € (2006-2010).
- “Database development for monitoring surface water and groundwater resources in Thessaly region” Prefecture of Thessaly, Regional Development Fund of Thessaly. Coordinator: Prof. Y. Mylopoulos. Budget: 120,000 €. (2003-2005).
- “Water allocation of Acheloos River for integrated water resources management in Thessaly” Regional Municipality Union of Thessaly. Project Lead Partner: Ass. Prof. N. Mylopoulos. (2003-2005).
- “DEMONstration of Earth observation Technologies in Routine irrigation advisory services (DEMETER)”, European Commission, 5th Framework, Energy, Environment and Sustainable Development. Coordinator: Dr. Alfonso Calera Belmonte. Budget: 2,800,000 € (2002-2005).
- “Research network for water resources study of Cyprus and Greece”, Hellenic General Secretariat for Research and Technology (2002-2003).
- “Project for the Training of Elementary and High School Teachers in Environmental Education ” Greek Ministry of Education and Religious Affairs (1999-2000).
- “Program of Elective Studies – Management of Rural Environment and Natural Resources”. Greek Ministry of Education and Religious Affairs (1998-2004).

### **Research Profile and International Recognition**

- Mr. Vasiliades is the author and co-author of more than 100 publications in refereed journals, international conference proceedings and technical reports.
- Citations based on ‘Scopus’ database:  $\geq 1153$ 
  - H-index=19
- Citations based on ‘Google Scholar’ database:  $\geq 2186$ 
  - H-index=23                      i10-index = 28

<b>Publications</b>
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A. *Dissertations & Theses*

- A1. **Vasiliades, L.**, & I. Mitragkos, 1995. “*Polycyclic Aromatic Hydrocarbons (PAH) in the environment and the use of High Performance Liquid Chromatography (HPLC) in their determination*” B.Sc. Diploma Thesis, Department of Environment, University of the Aegean, Greece, 260 pp. (in Greek).
- A2. **Vasiliades, L.**, 1996. “*A comparison of urban drainage software packages for the design of sewers*” M.Sc. Thesis, Department of Civil Engineering, University of Newcastle Upon Tyne, United Kingdom, 130 pp.
- A3. **Vasiliades, L.**, 2010. “*Spatiotemporal drought analysis, modelling and forecasting for Pinios river basin, Greece*” Ph.D. Thesis, Department of Civil Engineering, University of Thessaly, Volos, Greece, 391 pp. (in Greek with English abstract, available at <http://thesis.ekt.gr/thesisBookReader/id/22285#page/1/mode/2up>).

B. *Referred Journals*

- B1. Loukas, A., **L. Vasiliades** and N.R. Dalezios, 2000. Flood producing mechanisms identification in Southern British Columbia. *Journal of Hydrology*, 227(1-4), 218-235.
- B2. Dalezios, N.R., A. Loukas, **L. Vasiliades**, and H. Liakopoulos, 2000. Severity-duration-frequency analysis of droughts and wet periods in Greece. *Hydrological Sciences Journal*, 45(5), 751-770.
- B3. Loukas, A., **L. Vasiliades**, N.R. Dalezios, and C. Domenikiotis, 2001. Rainfall-frequency mapping for Greece. *Physics and Chemistry of the Earth-Part B: Hydrology, Oceans & Atmosphere*, 26(9), 669-674.
- B4. Loukas, A., **L. Vasiliades**, and N.R. Dalezios, 2002. Potential climate change impacts on flood producing mechanisms in Southern British Columbia, Canada using the CGCMa1 simulation results. *Journal of Hydrology*, 259(1-4), 163-188.
- B5. Loukas, A., **L. Vasiliades**, and N.R. Dalezios, 2002. Hydroclimatic variability of regional droughts in Greece Using the Palmer Moisture Anomaly Index. *Nordic Hydrology*, 33(5), 425-442.
- B6. Loukas, A., **L. Vasiliades**, and N.R. Dalezios, 2002. Climatic impacts on the runoff generation processes in British Columbia, Canada. *Hydrology and Earth System Sciences*, 6(2), 211-227.
- B7. Loukas, A., **L. Vasiliades**, and N.R. Dalezios, 2004. Climate change implications on flood response of a mountainous watershed. *Water, Air, & Soil Pollution: Focus*, 4(4-5), 331-347.
- B8. Loukas, A., and **L. Vasiliades**, 2004. Probabilistic analysis of drought spatiotemporal characteristics in Thessaly Region, Greece. *Natural Hazards and Earth System Sciences*, 4(5-6), 719-731.
- B9. Loukas, A., **L. Vasiliades**, C. Domenikiotis and N.R. Dalezios, 2005. Basin-wide actual evapotranspiration estimation using NOAA/AVHRR satellite data. *Physics and Chemistry of the Earth*, 30(1-3). 69-79.
- B10. Loukas, A., N. Mylopoulos and **L. Vasiliades**, 2007. A modeling system for the evaluation of water resources management strategies in Thessaly, Greece. *Water Resources Management*, 21(10), 1673-1702, doi 10.1007/s11269-006-9120-5.
- B11. Loukas, A., **L. Vasiliades, L.**, and J. Tzabiras, 2007. Evaluation of climate change on drought impulses in Thessaly, Greece. *European Water Journal*, 17-18(1), 17-28.
- B12. Loukas, A., **L. Vasiliades, L.**, and J. Tzabiras, 2008. Climate change effects on drought severity. *Advances in Geosciences Journal*, 17, 23-29.
- B13. **Vasiliades, L.**, and A. Loukas, 2009. Hydrological response to meteorological drought using the Palmer drought indices in Thessaly, Greece. *Desalination Journal*, 237, 3-21.
- B14. **Vasiliades, L.**, A. Loukas and G. Patsonas, 2009. Evaluation of a statistical downscaling procedure for the estimation of climate change impacts on droughts. *Natural Hazards and*

- Earth Systems Sciences*, 9, 879-894.
- B15. **Vasiliades, L.**, A. Loukas, and N. Liberis, 2011. A water balance derived drought index for Piniot river basin, Greece. *Water Resources Management*, 25, 1087-1101, doi: 10.1007/s11269-010-9665-1.
- B16. Loukas, A. and **L. Vasiliades**, 2014. Streamflow simulation methods for ungauged and poorly gauged watersheds. *Natural Hazards and Earth System Sciences*, 14, 1641-1661, doi:10.5194/nhess-14-1641-2014.
- B17. Papaioannou, G., **L. Vasiliades**, and A. Loukas, 2015. Multi-criteria analysis framework for potential flood prone areas mapping. *Water Resources Management*, 29(2), 399-418.
- B18. **Vasiliades, L.**, P. Galiatsatou and A. Loukas, 2015. Nonstationary frequency analysis of annual maximum rainfall using climate covariates. *Water Resources Management*, 29(2), 339-358.
- B19. Tzabiras, J., **L. Vasiliades**, A. Loukas and N. Mylopoulos, 2015. Climate change impacts on hydrometeorological variables using a bias correction method: The Lake Karla watershed case. *Mathematics in Engineering, Science and Aerospace*, 6(4), 683-700.
- B20. Loukas, A., P. Sidiropoulos, N. Mylopoulos, **L. Vasiliades** and K. Zagoriti, 2015. Assessment of the effect of climate variability and change and human intervention in the Lake Karla aquifer. *European Water*, 49, 19-31.
- B21. Hundecha, Y., M. A. Sunyer, D. Lawrence, H. Madsen, P. Willems, G. Bürger, J. Kriaučiūnienė, A. Loukas, M. Martinkova, M. Osuch, **L. Vasiliades**, B. von Christerson, K. Vormoor and I. Yücel, 2016. Inter-comparison of statistical downscaling methods for projection of extreme flow indices across Europe. *Journal of Hydrology*, 541, 1273–1286.
- B22. Papaioannou, G., A. Loukas, **L. Vasiliades** and G.T. Aronica, 2016. Flood inundation mapping sensitivity to riverine spatial resolution and modelling approach. *Natural Hazards*, 83(1), S117-S132.
- B23. Tzabiras, J., A. Loukas and **L. Vasiliades**, 2016. A hybrid downscaling approach for the estimation of climate change effects on droughts. Case study: Thessaly, Central Greece. *Open Geosciences*, 8, 728-746.
- B24. Tzabiras, J., **L. Vasiliades**, P. Sidiropoulos, A. Loukas and N. Mylopoulos, 2016. Investigation of water resources management practices and climate change effects. Case study: Lake Karla watershed. *Water Resources Management*, 30, 5819-5844.
- B25. Papaioannou, G., **L. Vasiliades**, A. Loukas, and G.T. Aronica, 2017. Probabilistic flood inundation mapping at ungauged streams due to roughness coefficient uncertainty in hydraulic modelling. *Advances in Geosciences*, 44, 23-34, <https://doi.org/10.5194/adgeo-44-23-2017>.
- B26. Valatin, G. et al., 2017. PESFOR-W: Improving the design and environmental effectiveness of woodlands for water Payments for Ecosystem Services. *Research Ideas and Outcomes*, 3, e13828. <https://doi.org/10.3897/rio.3.e13828>.
- B27. **Vasiliades, L.**, G. Sarailidis and A. Loukas, 2017. Hydrological modelling of low flows for operational water resources management. *European Water*, 57, 223-229.
- B28. Papaioannou, G., A. Loukas, **L. Vasiliades** and G.T. Aronica, 2017. Sensitivity analysis of a probabilistic flood inundation mapping framework for ungauged catchments. *European Water*, 60, 9-16.
- B29. Papaioannou G, A. Efstratiadis, **L. Vasiliades**, A. Loukas, S.M. Papalexidou, A. Koukouvinos, I. Tsoukalas, P. Kossieris, 2018. An operational method for Flood Directive Implementation in ungauged urban areas. *Hydrology*, 5(2), 24 <https://doi.org/10.3390/hydrology5020024>.
- B30. Sarailidis, G., **L. Vasiliades** and A. Loukas, 2019. Analysis of streamflow droughts using fixed and variable thresholds. *Hydrological Processes*, 33(3), 414-431, <https://doi.org/10.1002/hyp.13336>.
- B31. Sidiropoulos, P., G. Tziatzios, **L. Vasiliades**, N. Mylopoulos and A. Loukas, 2019. Groundwater nitrate contamination integrated modeling for climate and water resources scenarios: The case of Lake Karla over-exploited aquifer. *Water*, 11(6), 1201 <https://doi.org/10.3390/w11061201>.
- B32. Loukas, A.; Garrote, L.; **Vasiliades, L.**, 2021. Hydrological and Hydro-Meteorological Extremes and Related Risk and Uncertainty. *Water*, 13, 377.



- <https://doi.org/10.3390/w13030377>.
- B33. Papaioannou, G.; **Vasiliades, L.**; Loukas, A.; Alamanos, A.; Efstratiadis, A.; Koukouvinos, A.; Tsoukalas, I.; Kossieris, P., 2021. A Flood Inundation Modeling Approach for Urban and Rural Areas in Lake and Large-Scale River Basins. *Water*, 13, 1264, <https://doi.org/10.3390/w13091264>.
- B34. Tziatzios, G., P. Sidiropoulos, **L. Vasiliades**, A. Lyra, N. Mylopoulos, A. Loukas, 2021. The use of pilot points method on groundwater modelling for a degraded aquifer with limited field data: the case of Lake Karla aquifer, *Water Supply*, ws2021133, <https://doi.org/10.2166/ws.2021.133>.
- B35. Sidiropoulos, P., N. Mylopoulos, **L. Vasiliades** and A. Loukas, 2021. Stochastic Nitrate Simulation under Hydraulic Conductivity Uncertainty of an Agricultural Basin Aquifer, *Environmental Science and Pollution Research*, <https://doi.org/10.1007/s11356-021-15555-1>.

### C. Referred Conferences (full paper review and participation in the Conference)

- C1. Loukas, A., **L. Vasiliades**, C. Domenikiotis, N.R. Dalezios, 2000. Estimation of probability distribution of extreme flows from mountainous basins. Proceedings, 2<sup>nd</sup> National Conference of Agricultural Engineering, Volos, 28-30 September, 34-41 (in Greek).
- C2. Dalezios, N.R., A. Loukas and **L. Vasiliades**, 2000. Partial frost severity-duration-frequency analysis. Proceedings of 3<sup>rd</sup> European Conference on Applied Climatology - Climate 2000, 16-20 October 2000, Pisa, Italy, 6 pp. (in CD-ROM).
- C3. **Vasiliades, L.**, A. Loukas, E. Valentine, N.R. Dalezios, 2001. Modelling of a combined sewer overflow using Hydroworks and Mouse software packages. Proceedings of the 7<sup>th</sup> Conference on Environmental Science and Technology, Vol. B', 3-6 September 2001, Hermoypolis, Syros, Greece, 911-919.
- C4. Loukas, A., **L. Vasiliades** and N.R. Dalezios, 2001. Potential effects on the water resources of two watersheds due to future climate change. Proceedings of the 7<sup>th</sup> Conference on Environmental Science and Technology, Vol. C', 3-6 September 2001, Hermoypolis, Syros, Greece, 276-285.
- C5. Loukas, A., **L. Vasiliades** and N.R. Dalezios, 2002. Hydrologic modeling of flood response due to climate change. Proceedings of the 6<sup>th</sup> International Conference on Protection and Restoration of the Environment, 1-5 July 2002, Skiathos, Greece, 1165-1172.
- C6. Loukas, A., **L. Vasiliades** and N.R. Dalezios, 2002. A hydrologic modeling procedure using a watershed model and artificial neural networks. Proceedings of the 5<sup>th</sup> International Conference Water Resources Management in the Era of Transition, European Water Resources Association, 4-8 September 2002, Athens, Greece, 219-228.
- C7. Loukas, A., **L. Vasiliades**, M. Spiliotopoulos, D. Bampzelis, C. Domenikiotis, & N.R. Dalezios, 2002. An assessment of regional droughts in Greece using two meteorological drought indices. Proceedings of the 6<sup>th</sup> Hellenic Conference in Meteorology, Climatology & Atmospheric Physics, 25-28 September 2002, Ioannina, Greece, 708-716.
- C8. Loukas, A., **L. Vasiliades** and N.R. Dalezios, 2003. Intercomparison of meteorological drought indices for drought assessment and monitoring in Greece. Proceedings of the 8<sup>th</sup> International Conference on Environmental Science and Technology, 8-10 September 2003, Lemnos, Greece, 484-491.
- C9. Loukas, A., **L. Vasiliades** and N. Mpastrogiannis, 2003. Water balance modeling for the evaluation of surface water resources. Proceedings of the 8<sup>th</sup> International Conference on Environmental Science and Technology, 8-10 September 2003, Lemnos, Greece, 492-499.
- C10. Loukas, A., **L. Vasiliades**, C. Domenikiotis and N.R. Dalezios, 2003. Water balance of forested mountainous watersheds using satellite derived actual evapotranspiration. Remote Sensing 2003, International Society for Optical Engineering (SPIE), 8-12 September 2003, Barcelona, Spain. Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Manfred Owe, Guido D'Urso, Jose F. Moreno, Alfonso Calera, Editors, February 2004, 456-466.
- C11. Loukas, A., and **L. Vasiliades**, 2003. Peak flow estimation in ungauged watersheds. International Workshop on Hydrological Risk, 24-25 October 2003, Bologna, Italy, 333-352.

- C12. Loukas, A., **L. Vasiliades**, C. Domenikiotis and N.R. Dalezios, 2003. Regional estimation of NDVI-derived actual evapotranspiration for water balance modeling. International Symposium on GIS and Remote Sensing: Environmental Applications, 7-9 November 2003, Volos, Greece, 277-286.
- C13. Christodoulaki, S., A. Loukas, **L. Vasiliades** and N.R. Dalezios, 2003. Water balance modeling using digital GIS data. International Symposium on GIS and Remote Sensing: Environmental Applications, 7-9 November 2003, Volos, Greece, 249-260.
- C14. Christodoulaki, S., A. Loukas, **L. Vasiliades**, and N.R. Dalezios, 2004. Analysis of water balances and demands in Heraklion Watersheds, Crete. Electronic Proceedings of the 7th International Conference of Protection and Restoration of the Environment, Mykonos, 28 June - 2 July 2004, 9pp. (in CD-ROM).
- C15. Loukas, A., **L. Vasiliades**, and J. Jabiras, 2005. Response of drought to climate change in Thessaly, Greece. 6th International Conference European Water Resources Association, 7-10 September 2005, Menton, France, 19pp. (in CD-ROM).
- C16. Loukas, A., N. Mylopoulos, **L. Vasiliades**, H. Tarnanas, J. Polykretis and A. Dimitriou, 2005. Sustainable water resources management in Pinios River and Lake Karla basins, Thessaly, Greece. 6th International Conference European Water Resources Association, 7-10 September 2005, Menton, France, 20pp. (in CD-ROM).
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- C61. Tziatzios, G., P. Sidiropoulos, **L. Vasiliades**, J. Tzabiras, G. Papaioannou, N. Mylopoulos and A. Loukas, 2018. Effects of climate change on groundwater nitrate modelling. Proceedings of Protection and Restoration of the Environment XIV, 3-6 July 2018, Thessaloniki, Greece, 730-739.
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- D5. Dalezios, N.R., A. Loukas, **L. Vasiliades**, and D. Bampzelis, 2001. Radar rainfall measurements for flow simulation. XXVI General Assembly of the European Geophysical Society, 25-30 March 2001, Nice, France. Geophysical Research Abstracts, Vol. 3, 2001.
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- D12. Loukas, A., **L. Vasiliades**, and C. Zaragotas, 2004. Regional drought characteristics in the Thessaly Region, Greece. 1<sup>st</sup> EGU General Assembly, 25-30 April 2004, Nice, France. Geophysical Research Abstracts, Vol. 6, 2004.
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- D29. **Vasiliades, L.**, and A. Loukas, 2010. Spatiotemporal drought forecasting using nonlinear models. EGU General Assembly 2010, 2-7 May 2010, Vienna, Austria, Geophysical Research Abstracts, Vol. 12, EGU2010-14321.
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- D35. Aronica, G., A. Loukas, and **L. Vasiliades**, 2011. Predicting daily streamflow with uncertainty using parsimonious rainfall-runoff models finalised to water resources management in a Cypriot catchment. EGU General Assembly 2011, 3-8 April 2011, Vienna,

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- D41. Loukas, A., K. Zagoriti, N. Mylopoylos, **L. Vasiliades** and P. Sidiropoulos, 2013. Climate variability and change and human intervention effects on an over-exploited aquifer. EGU General Assembly 2013, 7-12 April 2013, Vienna, Austria, Geophysical Research Abstracts, Vol. 15, EGU2013-12075.
- D42. Gkilimanakis, E., **L. Vasiliades**, A. Loukas, and P. Willems, 2013. A benchmark comparison of conceptual hydrological models for runoff simulation. International Conference Facets of Uncertainty, 17-19 October 2013, Kos Island, Greece.
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- D44. Papaioannou, G., G.T. Aronica, A. Loukas, and **L. Vasiliades**, 2014. The impact of DEM accuracy and hydraulic modeling performance for flood inundation mapping. European Symposium on Flood Frequency Estimation and Implications for Risk Management, 6-7 March 2014, Potsdam, Germany.
- D45. **Vasiliades, L.**, and A. Loukas, 2014. A hybrid modelling technique for streamflow modelling using limited information. European Symposium on Flood Frequency Estimation and Implications for Risk Management, 6-7 March 2014, Potsdam, Germany.
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- D48. Dewaele, H., **L. Vasiliades**, M. Esteves, and A. Loukas, 2014. Regionalization procedures for hydrological drought assessment in Cevennes region, France. EGU General Assembly 2014, 27 April-2 May 2014, Vienna, Austria, Geophysical Research Abstracts, Vol. 16, EGU2014-14165.
- D49. Papaioannou, G., G.T. Aronica, A. Loukas, and **L. Vasiliades**, 2014. A sensitivity analysis using different spatial resolution terrain models and flood inundation models. EGU General Assembly 2014, 27 April-2 May 2014, Vienna, Austria, Geophysical Research Abstracts, Vol. 16, EGU2014-14009.
- D50. Tzabiras, J., M. Spiliotopoulos, K. Kokkinos, C. Fafoutis, P. Sidiropoulos, **L. Vasiliades**, A. Loukas and N. Mylopoulos, 2014. A GIS based district information system for water resources management and planning. EGU General Assembly 2014, 27 April-2 May 2014, Vienna, Austria, Geophysical Research Abstracts, Vol. 16, EGU2014-15446.



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- D53. Tzabiras, J., M. Spiliotopoulos, K. Kokkinos, C. Fafoutis, P. Sidiropoulos, **L. Vasiliades**, G. Papaioannou, A. Loukas and N. Mylopoulos, 2015. A GIS based watershed information system for water resources management and planning in semi-arid areas. EGU General Assembly, 12-17 April 2015, Vienna, Austria, Geophysical Research Abstracts, Vol. 17, EGU2015-14150.
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- D60. **Vasiliades, L.**, and A. Loukas, 2018. Impacts of meteorological data elevation coverage on a hydrologic model for mountainous watersheds. COST Action ES1404 Harnosnow Workshop “Towards a better harmonization of snow observations, modeling and data assimilation in Europe”, 30-31 October 2018, Budapest, Hungary.
- D61. Tziatzios, G., P. Sidiropoulos, **L. Vasiliades**, J. Tzabiras, A. Alamanos, N. Mylopoulos and A. Loukas, 2018. Quantitative and qualitative assessment of climate change on Lake Karla’s aquifer. International Conference of Regional Association of Thessaly Municipalities “Pinios River: Source of life and growth in Thessaly”, 2-3 November 2018, Larissa, Greece (in Greek).
- D62. Loukas, A., G. Papaioannou, P. Sidiropoulos, **L. Vasiliades**, N. Mylopoulos, 2018. Flood risk design and management in Thessaly: The implementation of EU Flood Directive 2007/60. International Conference of Regional Association of Thessaly Municipalities “Pinios River: Source of life and growth in Thessaly”, 2-3 November 2018, Larissa, Greece (in Greek).
- D63. Alamanos, A., A. Loukas, N. Mylopoulos, S. Xenarios, **L. Vasiliades** and D. Latinopoulos, (2019). Climate change effects on agriculture in southeast Mediterranean: the case of Karla Watershed in Central Greece. EGU General Assembly 2019, Geophysical Research Abstracts, Vol. 21, EGU2019-6544-1.

*E. Publications in Special Editions and Books*

- E1. Loukas, A., **L. Vasiliades**, & N. Mpastrogiannis, 2003. “Hydrologic Simulation of Water Balance in Yermasogia Watershed, Cyprus”, *Proceedings «Studies and Researchers of Water Resources in Cyprus*, Nicosia, Cyprus, 20 June 2003, pp. 83-114.
- E2. Loukas, A., A. Efstratiadis, and **L. Vasiliades**, 2010. Review of existing simulation based flood-frequency frameworks in Greece, EU COST Action ES0901: European Procedures for Flood Frequency Estimation (FloodFreq) - 3<sup>rd</sup> Management Committee Meeting, Prague, 28-29 October 2010.
- E3. Efstratiadis, A., **L. Vasiliades**, and A. Loukas, 2010. Review of existing statistical methods for flood frequency estimation in Greece, EU COST Action ES0901: European Procedures for Flood Frequency Estimation (FloodFreq) - 3<sup>rd</sup> Management Committee Meeting, Prague, 28-29 October 2010.
- E4. **Vasiliades, L.**, A. Loukas, and A. Efstratiadis, 2010. Review of environmental change impacts on flood frequency estimation at Greece, EU COST Action ES0901: European Procedures for Flood Frequency Estimation (FloodFreq) - 3<sup>rd</sup> Management Committee Meeting, Prague, 28-29 October 2010.
- E5. Tzabiras J., A. Loukas, Ch. Fafoutis, M. Spiliotopoulos, P. Sidiropoulos, K. Kokkinos, **L. Vasiliades**, G. Papaioannou and N. Mylopoulos (2015). “Development of an integrated information system for design and management of rural water basins”. Edited publication for Prof. S. Yiannopoulos (in print).
- E6. **Vasiliades, L.**, A. Liakopoulos, A. Loukas and N. Mylopoulos (2015). “Stochastic modelling of hydrometeorological variables for hydrological applications”. Edited publication for Prof. S. Yiannopoulos (in print).

*F. Non-Referred Presentations*

- F1. Dalezios, N.R., A. Loukas and **L. Vasiliades**, 2000. “Digital Mapping of Rainfall and Droughts in Greece”, 10<sup>th</sup> Meeting of Greek Users of ArcInfo-ArcView, 9-10 November, Athens, Greece (in Greek).
- F2. Loukas, A. & **L. Vasiliades**, 2002. “Climatology - Assessment of Surface Water Resources of Enipeas Watershed in Thessaly” *Meeting: Sustainable Development of Farsala Municipality*, Laboratory of Rural Space, University of Thessaly, Farsala, Greece (February 2002, in Greek).
- F3. Loukas, A., **L. Vasiliades** & N.R. Dalezios, 2002. “Use of GIS for management of hydrologic and geomorphologic information”, 12<sup>th</sup> Meeting of Greek Users ArcInfo-ArcView, 7-8 November 2002, Athens, Greece (in Greek).
- F4. **Vasiliades, L.**, 2005. “Investigation of the Relationship between Meteorological, Soil Moisture and Hydrological Drought”, “*Hydromedon*” - *First meeting of PhD students*, University of Patra, 9 July 2005, Patra, Greece (in Greek).
- F5. **Vasiliades, L.**, and A. Loukas, 2008. Drought in Thessaly: present situation, future evolution and impacts on water resources. Workshop “Natural Disasters in Thessaly, Knowledge and Perspectives”, Municipality of Pili, 3 October 2008, Pili, Greece (in Greek).
- F6. Loukas A., and **L. Vasiliades**, 2010. Wetlands: Characteristics-Present Situation-Problems. The case of Mati of Tirnavos, Workshop “Water World Day-Mati of Tirnavos, Source of Life”, Municipality of Tirnavos, March 2010 (in Greek).
- F7. **Vasiliades, L.**, 2012. Evaluation of climate change effects on water resources and socio-economic activities. 1<sup>st</sup> Meeting of the program “Hydromentor”. 16 March 2012, Velestino Magnesias, Greece (in Greek).
- F8. **Vasiliades, L.**, 2012. Water resources management: The “Hydromentor” program, Scientific Workshop “New technologies in irrigation and plant protection on agriculture”, 30 March 2012, Larissa, Greece (in Greek).
- F9. **Vasiliades, L.**, 2012. New directions on integrated water resources management, Scientific Workshop of DEYAMB “Water supply of the integrated municipality of Volos”, 14 December 2012, Volos, Greece (in Greek).

- F10. Loukas, A., **Vasiliades, L.** and Gkilimanakis, E. 2013. Flood Frequency estimation using rainfall runoff models. Application to Gardons watersheds, France. EU COST Action ES0901: European Procedures for Flood Frequency Estimation (FloodFreq). WG3 Workshop, 19-20 March 2013, Norwegian Water Resources and Energy Directorate, Oslo, Norway.
- F11. Loukas, A., **Vasiliades, L.** and Gkilimanakis, E. 2013. Impact of climate change on streamflow at Yermasoyia watershed, Cyprus. An inter-comparison of hydrological models and statistical downscaling procedures. EU COST Action ES0901: European Procedures for Flood Frequency Estimation (FloodFreq). WG4 Workshop, 19-20 March 2013, Norwegian Water Resources and Energy Directorate, Oslo, Norway.
- F12. **Vasiliades, L.**, 2014. Water resources management in Thessaly. World Environment Day, Department of Agriculture Crop Production and Rural Environment, School of Agricultural Sciences, University of Thessaly, 5 June 2014, Velestino, Greece.
- F13. **Vasiliades, L.**, 2016. Water resources management under drought and water scarcity. World Environment Day, 5 June 2016, Foudoulis' Conservatory: Center of International Music Studies, Volos, Greece.

### G. Educational Notes

- G1. Loukas, A. και **L. Vasiliades**, 2018. Notes on "Reservoir Design for Hydroelectric Power Plants", Department of Civil Engineering, University of Thessaly (<http://eclass.uth.gr/eclass/courses/MHXC245/>) (in Greek).
- G2. **Vasiliades, L.**, 2018. Notes on "Spatial Analysis Techniques and Remote Sensing Applications in Civil Engineering". Department of Civil Engineering, University of Thessaly (<http://eclass.uth.gr/eclass/courses/MHXC248/>) (in Greek).
- G3. **Vasiliades, L.**, 2018. Notes on "Management of Extreme Hydrological Phenomena". Department of Civil Engineering, University of Thessaly (<http://eclass.uth.gr/eclass/courses/MHXC240/>) (in Greek).
- G4. **Vasiliades, L.**, 2017. Notes on "Water Resources Management" Undergraduate Course, Department of Civil Engineering, University of Thessaly (<http://eclass.uth.gr/eclass/courses/MHXC233/>) (in Greek).
- G5. Loukas, A. and **L. Vasiliades** 2017. Notes on "Hydrological Modelling and Forecasting" Undergraduate Course, Department of Civil Engineering, University of Thessaly (<http://eclass.uth.gr/eclass/courses/MHXC172/>) (in Greek).
- G6. **Vasiliades, L.** 2016. Notes on "Geographical Information Systems" Undergraduate Course, Department of Civil Engineering, University of Thessaly, (<http://eclass.uth.gr/eclass/courses/MHXC176/>) (in Greek).
- G7. Loukas, A. and **L. Vasiliades**, 2016. Notes on "Dams and Reservoirs" Undergraduate Course, Department of Civil Engineering, University of Thessaly, (<http://eclass.uth.gr/eclass/courses/MHXC195/>) (in Greek).
- G8. **Vasiliades, L.**, 2015. Notes on "Droughts" Postgraduate Course, Department of Civil Engineering, University of Thessaly.
- G9. **Vasiliades, L.**, 2015. Notes on "Floods" Postgraduate Course, Department of Civil Engineering, University of Thessaly.
- G10. **Vasiliades, L.**, 2015. Notes on "Forecasting of Hydrohazards" Postgraduate Course, Department of Civil Engineering, University of Thessaly.
- G11. **Vasiliades, L.**, 2013. Notes on "Engineering Hydrology" Undergraduate Course, Department of Civil Engineering, University of Thessaly (in Greek).
- G12. **Vasiliades, L.**, 2012. Notes on "Stochastic Hydrology" Undergraduate Course, Department of Civil Engineering, University of Thessaly (in Greek).

### H. Citations in Referred Journals, Books and Conferences

- The publications of Dr. Lampros Vasiliades have over 1000 and 2000 citations based on

Scopus and Google Scholar databases, respectively, in Referred Journals, Books and Conferences and Technical reports. The citation list has been resulted from searches in ISI, SCOPUS, Scholar Google, and Microsoft Academic databases. This citation list is available upon request. The publication track list could be found in [Google Scholar](#), [Microsoft Academic](#), [Scopus](#) databases and in Harzing's Publish or Perish application (search in author impact analysis = Vasiliades L.). ResearcherID: [B-4097-2014](#) ; ORCID: <http://orcid.org/0000-0002-1427-0007> ; Scopus Author ID: [6603646841](#)