

## CURRICULUM VITAE

### **PERSONAL INFO**

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Family name	<b>Makris</b>	Portrait photo
First name	<b>Christos</b>	
Father's name	Vassileios	
Sex	Male	
Birth date	26/02/1979	
Nationality	Greek	

### **AFFILIATION – CONTACT INFO**

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Academic Address	Laboratory of Maritime Engineering and Maritime Works (LMEMW) Division of Hydraulics and Environmental Engineering (DHEE) Department of Civil Engineering (DCE), Faculty of Engineering Aristotle University of Thessaloniki (AUTH) GR-54124, Thessaloniki, Greece
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Skype	christos.makris

### **CURRENT EMPLOYMENT STATUS**

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Full-time	Research Associate at AUTH Dept. of Civil Engineering
Part-time	Freelance Consultant Civil Engineer for private and public civil works
Elected	Assistant Professor at the Civil Engineering Dept. in Democritus University of Thrace

### **CONCISE MEMO OF PROFESSIONAL EXPERIENCE**

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1997-2000	Official Organization of Betting in Hellenic Sport Events (OPAP)
2006	Research Assistant in NTUA (Program: NTUA subcontracted by LACECO Ltd., Project: Saraya Aqaba Lagoon)
2007-2013	Tutor and Teaching Assistant in the Civil Engineering Dept. of AUTH
2008	Research Assistant in AUTH (Program: EIPCOPII – ΕΠΕΑΕΚ II, Project: Integration of Investigation and Reformation of AUTH Studies)

- 2008 Research Assistant in AUTH (Program: INTERREG III-B – ARCHIMED, Project: CORI)
- 2010 Research Assistant in AUTH (Program: Research DG–GoEC, Project: SESAME)
- 2010-2012 Freelance Civil Engineering Consultant Professional
- 2012 Research Assistant in AUTH (Program: EIPCOPII – ΕΠΕΑΕΚ II, Project: Enhancement of Research, Educational, and Cultural Activities of Civil Engineering Dept. of AUTH)
- 2012-2015 Research Associate in AUTH (Program: THALES, Project: CCSEAWAVS)
- 2013-2015 Research Associate in AUTH (Program: COOPERATION 2011, Project: WaveForUs)
- 2015 Research Associate in AUTH/NTUA (Program: Education and Lifelong Learning 2007-2013, Project: KALLIPOS)
- 2016 Research Associate in AUTH (participation in writing and submission of proposals for Program: HORIZON 2020, Project: SIRoCCo; Program: INTERREG Balkan-Med, Project: FACTS)
- 2016-2017 Post-doctoral Research Fellow in AUTH (Program: IKY-SIEMENS excellence scholarships for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY) academic year 2016-17, Project: Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea)
- 2017 Research Associate in AUTH (participation in writing and submission of proposals for Program: Academic Teaching Experience for Young Scientists and Doctors, Project: EDBM20; Program: EDBM34, Project: CCFLOOD-MedBlack; Program: ELIDEK, Projects: UPRIPORT-CC and BEACHPROTECT; Program: Research – Create – Innovate, Project: DeSTACCI; Program: ENI CBC BSB 2014-2020, Project: TIMMOD)
- 2017-2019 Research Associate in AUTH (Program: EYATH S.A. – AUTH Cooperation, Project: Monitoring of Water Quality in the Maritime Environment of the Thermaikos Gulf, Thessaloniki, Greece)
- 2018 University Fellow Scholar in AUTH (Program: Development of Human Resources, Education and Lifelong Learning - EDBM45, Project: Acquisition of academic teaching experience for new PhD scientists)
- 2018-2020 Research Associate in AUTH (Program: ERANETMED, Project: MEDAQCLIM)
- 2018-2022 Research Associate in AUTH (Program: Research–Create–Innovate, Project: ACCU-WAVES)

- 2020 Research Associate of Scientia Maris co. (Program: Research–Create–Innovate, Project: COAST-UP)
- 2020-2022 Research Associate in AUTH (Program: ENI-CBC JOP BSB2019, Project: TIMMOD)
- 2021-2023 Research Associate in AUTH (Program: Support to the Management Authority of Thermaikos Gulf Protected Areas for the implementation of interventions for the management, protection and promotion of the natural environment and biodiversity within its area of responsibility, Project: Mapping of pressures and estimation of external and internal loads of nutrients and organic material for the protection and management of the marine waters in Thermaikos Gulf)
- 2023 University Fellow Scholar in AUTH (Program: Development of Human Resources, Education and Lifelong Learning – EDBM191, Project: Acquisition of academic teaching experience for new PhD scientists)
- 2024-2026 Research Associate in AUTH (Program: Interreg EuroMED, Project: LocAll4Flood)

### **MEMBER OF SOCIETIES – INSTITUTIONS – CHAMBERS**

- 2006 Member of Technical Chamber of Greece (TEE); Specialty: Civil Engineer; Registry Number: 107708, since 08/03/2006
- 2021 Member of International Association of Hydro-Environment Engineering and Research (IAHR); Member of Committees on: Coastal and Maritime Hydraulics, Flood Risk Management, Climate Change Adaptation, Fluid Mechanics, Hydraulic Structures, IAHR/IWA Joint Committee on Marine Outfall Systems, Water Resources Management, Oil Spill Modelling Working Group
- 2021 Member of the European Geosciences Union (EGU)
- 2021 Member of the Hellenic Hydrotechnical Association (HHA)

### **EDUCATION – PROFESSIONAL QUALIFICATIONS**

- 2005 Diploma of the Civil Engineering Dept., Faculty of Engineering, AUTH with specialty (MEng) in Hydraulics and Environmental Engineering (grade: 7.03/10)
- 2007 MSc in Water Resources Engineering & Management of the Interdisciplinary Post-graduate Studies Program “Science and Technology of Water Resources” of NTUA with specialty on “Coastal Engineering and Coastal Zone Management” (grade: 8.25/10)

2014 Doctorate (PhD) Diploma of the post-graduate studies program of the Civil Engineering Dept. in AUTH, on the scientific field of Computational Fluid Dynamics for Coastal Flows and Wave-induced Coastal Processes with focus on Smoothed Particle Hydrodynamics (grade: Excellent)

### **LANGUAGE SKILLS**

English	Fluent (Cambridge Proficiency Certificate)	Level: C2 (writing, reading, oral, listening)
German	Moderate (Goethe Zertifikat – ex-Grundstufe)	Level: B1 (writing, reading, oral, listening)
French	Novice (six years of high-school courses)	Level: A2 (reading, listening) A1 (oral)

### **COMPUTING SKILLS AND TECHNICAL SOFTWARE\***

\* Grading order novice → moderate → good → very good → excellent

O/S	Microsoft Windows (excellent); GNU/Linux (moderate)	
Office	MS-Office & OpenOffice (excellent); XLSTAT (moderate)	
Scientific	FORTRAN 77 and Fortran 90/95 (very good); Fortran 2003 (good); Visual Basic for Applications (good); MATLAB (moderate); Python (novice)	
CFD/Engineer	HiReSS, WAVE-L, GreCSS/MeCSS, CoastFLOOD (excellent; developer), SPHysics, MIKE21 (suites PP, HD, BW, SW, NSW, PMS, EMS, FM, SW-FM), Plumes, Visual Plumes, CEM_PE (very good); CORMIX, ACES, CEDAS, NN EurOtop, EurOtop Calculation Tool (moderate); DualSPHysics, T_Tide, MACE, SWAN, WAVEWATCH-III, XBeach, SBEACH, FLUENT, FLOW3D, CRESS, GENESIS, Xtide, Telemac, TOMAWAC, LISFLOOD-FP (novice)	
Oceanography	SeaBird Modules: SeaTerm, SeasaveV7, SBEDataProcessing, SeaSoftWaves (very good); Teledyne Modules: WinSC, WinADCP, WavesMon, BBTalk (good)	
Graphs/Maps	Golden Software Surfer/Grapher, ParaView, GetData (very good); QGIS, Tecplot (novice)	
CAD/Design	Inkscape (very good); AutoCAD, CorelDRAW, Blender (novice)	

### **SCIENTIFIC THESES & DISSERTATIONS (Total: 4)**

#### **T) THESES & DISSERTATIONS (4)**

- 1) **Makris, C.V.** and Politis, A. (2005). *Dispersion and Environmental Effects of a Thermal Plume in the Maritime Environment*, Civil Engineering Diploma Thesis (Supervisor: Prof. Y.N. Krestenitis), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*) [URL](#)
- 2) **Makris, C.V.** (2007). *Wave Transmission over Submerged Breakwaters*, Master Diploma Thesis (Supervisor: Prof. C.D. Memos), IPSP, 'Science and Technology of Hydraulic Resources', Course Series C' – "Coastal Zone Management", NTUA, Athens, Greece. (*in Greek*) [doi:10.26240/heal.ntua.25391](#), [URL](#)  
Citations: 4

- 3) **Makris, C.V. (2014)**. *Computational Simulation of Coastal Wave Processes with the use of Smoothed Particle Hydrodynamics (SPH) Method*, Doctoral Dissertation (Supervisors: Profs. Y.N. Krestenitis & C.D. Memos), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek) [doi:10.26262/heal.auth.ir.134620](https://doi.org/10.26262/heal.auth.ir.134620), [GRI-2014-12638](https://doi.org/10.12681/eadd/34666), [doi:10.12681/eadd/34666](https://doi.org/10.12681/eadd/34666), [doi:10.13140/RG.2.2.17936.61445](https://doi.org/10.13140/RG.2.2.17936.61445), URL

Citations: 1

- 4) **Makris, C.V. (2017)**. *Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea*, Post-doctoral Thesis (Supervisor: Y.N. Krestenitis), LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. IKY-SIEMENS Program of excellence scholarships for post-doctoral research in Greece 2016-2017 (Scientific Discipline: Infrastructure, Urban Development – Environment, Specialization: Infrastructure and Environmental Engineering), State Scholarships Foundation (SSF/IKY). (in Greek) URL, [doi:10.13140/RG.2.2.35687.09125](https://doi.org/10.13140/RG.2.2.35687.09125)

## **PUBLICATIONS\*\* (Total: 102)**

\*\* CS = CiteScore, IF = Impact Factor

### **A) ARTICLES IN SCIENTIFIC JOURNALS (18)**

- 1) Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V. and Krestenitis, Y. (2015). Storm surges in the Mediterranean Sea: variability and trends under future climatic conditions. *Dynamics of Atmospheres and Oceans*, Elsevier, Vol. 71, pp. 56–82. [doi:10.1016/j.dynatmoce.2015.06.001](https://doi.org/10.1016/j.dynatmoce.2015.06.001)  
CS: 3.10; IF: 1.70; h5-index: 18; median h5-index: 25; Citations: 122
- 2) **Makris, C.V.**, Memos, C.D. and Krestenitis, Y.N. (2016). Numerical Modeling of Surf Zone Dynamics under Weak Plunging Breakers with SPH Method. *Ocean Modelling*, Elsevier, Vol. 98, pp. 12–35. [doi:10.1016/j.ocemod.2015.12.001](https://doi.org/10.1016/j.ocemod.2015.12.001)  
CS: 5.80; IF: 3.20; h5-index: 32; median h5-index: 48; Citations: 43
- 3) **Makris, C.**, Galiatsatou, P., Tolika, K., Anagnostopoulou, C., Kombiadou, K., Prinos, P., Velikou, K., Kapelonis, Z., Tragou, E., Androulidakis, Y., Athanassoulis, G., Vagenas, C., Tegoulas, I., Baltikas, V., Krestenitis, Y., Gerostathis, T., Belibassakis, K. and Rusu, E. (2016). Climate Change Effects on the Marine Characteristics of the Aegean and Ionian Seas. *Ocean Dynamics*, Springer, Vol. 66, Issue 12, pp. 1603–1635. [doi:10.1007/s10236-016-1008-1](https://doi.org/10.1007/s10236-016-1008-1)  
CS: 4.00; IF: 2.30; h5-index: 24; median h5-index: 31; Citations: 69
- 4) **Makris, C.**, Androulidakis, Y., Kombiadou, K., Baltikas, V. and Krestenitis, Y. (2017). The impact of climate change on the storm surges of the Greek seas. *Hydrotechnika: Journal of Fluid Engineering and Water Resources*, Hellenic Hydrotechnical Association (EYE), Vol. 26, pp. 67-80. (in Greek) [ISSN:1106-5419, 5282-15629-1-PB](https://doi.org/10.1106/5282-15629-1-PB)  
Citations: 2
- 5) Galiatsatou, P., **Makris, C.**, and Prinos, P. (2018). Optimized Reliability Based Upgrading of Rubble Mound Breakwaters in a Changing Climate. *Journal of Marine Science and Engineering*, In: Special Issue “Climate Change, Coasts and Coastal Risk”, 6(3): 92. [doi:10.3390/jmse6030092](https://doi.org/10.3390/jmse6030092)  
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 29

- 6) Galiatsatou, P., **Makris**, C., Prinos, P., and Kokkinos D. (2019). Nonstationary joint probability analysis of extreme marine variables to assess design water levels at the shoreline in a changing climate. *Natural Hazards*, Springer. Vol. 98, Issue 3, pp. 1051–1089. [doi:10.1007/s11069-019-03645-w](https://doi.org/10.1007/s11069-019-03645-w)  
CS: 6.20; IF: 3.70; h5-index: 63; median h5-index: 85; Citations: 26
- 7) **Makris** C., Androulidakis Y., Karambas T., Papadimitriou A., Metallinos A., Kontos Y., Baltikas V., Chondros M., Krestenitis Y., Tsoukala V., and Memos C. (2021). Integrated modelling of sea-state forecasts for safe navigation and operational management in ports: Application in the Mediterranean Sea. *Applied Mathematical Modelling*, Elsevier. 89(2), pp. 1206-1234. [doi:10.1016/j.apm.2020.08.015](https://doi.org/10.1016/j.apm.2020.08.015)  
CS: 9.40; IF: 5.00; h5-index: 76; median h5-index: 99; Citations: 29
- 8) Skoulikaris Ch., **Makris** Ch., Katirtzidou M., Baltikas V., and Krestenitis Y. (2021). Assessing the vulnerability of a deltaic environment due to climate change impact on surface and coastal waters: the case of Nestos River (Greece). *Environmental Modeling & Assessment*, Springer, Vol. 26, pp. 459-486, [doi:10.1007/s10666-020-09746-2](https://doi.org/10.1007/s10666-020-09746-2)  
CS: 3.60; IF: 2.40; h5-index: 22; median h5-index: 37; Citations: 28
- 9) Androulidakis Y., Kolovoyiannis V., **Makris** C., Krestenitis Y., Baltikas V., Stefanidou N., Chatziantoniou A., Topouzelis K., and Moustaka-Gouni M. (2021). Effects of ocean circulation on the eutrophication of a Mediterranean gulf with river inlets: The Northern Thermaikos Gulf. *Continental Shelf Research*, Elsevier, Vol. 221, 104416. [doi:10.1016/j.csr.2021.104416](https://doi.org/10.1016/j.csr.2021.104416)  
CS: 4.40; IF: 2.30; h5-index: 30; median h5-index: 36; Citations: 28
- 10) Galiatsatou, P., **Makris**, C., Krestenitis, Y., and Prinos, P. (2021). Nonstationary Extreme Value Analysis of Nearshore Sea-State Parameters under the Effects of Climate Change: Application to the Greek Coastal Zone and Port Structures. *Journal of Marine Science and Engineering*, MDPI, 9(8), 817. [doi:10.3390/jmse9080817](https://doi.org/10.3390/jmse9080817)  
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64; Citations: 13
- 11) **Makris**, C., Tolika, K. Baltikas, V., Velikou, K., and Krestenitis, Y. (2023). The impact of climate change on the storm surges of the Mediterranean Sea: coastal sea level responses to deep depression atmospheric systems. *Ocean Modelling*, Elsevier, Vol. 181, 102149. [doi:10.1016/j.ocemod.2022.102149](https://doi.org/10.1016/j.ocemod.2022.102149)  
CS: 5.80; IF: 3.20; h5-index: 32; median h5-index: 48; Citations: 20
- 12) Androulidakis, Y., **Makris**, C., Mallios, Z., Pytharoulis, I., Baltikas, V. and Krestenitis, Y. (2023). Storm surges and coastal inundation during extreme events in the Mediterranean Sea: the IANOS Mediane. *Natural Hazards*, Springer, vol. 117, pp. 939-978. [doi:10.1007/s11069-023-05890-6](https://doi.org/10.1007/s11069-023-05890-6)  
CS: 6.20; IF: 3.70; h5-index: 63; median h5-index: 85; Citations: 19
- 13) Katirtzidou, M., Skoulikaris, Ch., **Makris**, C., Baltikas, V., Latinopoulos, D. and Krestenitis, Y. (2023). Modeling stakeholders' perceptions in participatory multi-risk assessment on a deltaic environment under climate change conditions. *Environmental Modeling & Assessment*, Springer, Vol. 28, pp. 367–388. [doi:10.1007/s10666-023-09890-5](https://doi.org/10.1007/s10666-023-09890-5)  
CS: 3.60; IF: 2.40; h5-index: 22; median h5-index: 37; Citations: 7
- 14) **Makris** C., Mallios Z., Androulidakis Y., and Krestenitis Y. (2023). CoastFLOOD: A High-Resolution Model for the Simulation of Coastal Inundation Due to Storm Surges, *Hydrology*, MDPI, 10(5), p. 103. [doi:10.3390/hydrology10050103](https://doi.org/10.3390/hydrology10050103)  
CS: 4.10; IF: 3.20; h5-index: 32; median h5-index: 42; Citations: 7

- 15) Androulidakis Y., **Makris C.**, Mallios Z., and Krestenitis Y. (2023). Sea level variability and coastal inundation over the northeastern Mediterranean Sea. *Coastal Engineering Journal*, Taylor & Francis, 65(4), pp. 514-545. doi:[10.1080/21664250.2023.2246286](https://doi.org/10.1080/21664250.2023.2246286)  
CS: 5.50; IF: 2.40; h5-index: 21; median h5-index: 37; Citations: 1
- 16) Androulidakis Y., **Makris C.**, Krestenitis Y., Kolovoyiannis V., Baltikas V., Mallios Z., Pytharoulis I., Topouzellis K., Spondylidis S., Tegoulis, I., Kontos Y. (2023). Hydrography of Northern Thermaikos Gulf based on an integrated observational-modeling approach. *Continental Shelf Research*, Elsevier, vol. 269, 105141. doi:[10.1016/j.csr.2023.105141](https://doi.org/10.1016/j.csr.2023.105141)  
CS: 4.40; IF: 2.30; h5-index: 30; median h5-index: 36; Citations: 2
- 17) **Makris C.**, Papadimitriou A., Baltikas V., Spiliopoulos G., Kontos Y., Metallinos A., Androulidakis Y., Chondros M., Klonaris G., Malliouri D., Nagkoulis N., Zissis D., Tsoukala V., Karambas T., Memos C. (2024). Validation and Application of the Accu-Waves Operational Platform for Wave Forecasts at Ports. *Journal of Marine Science and Engineering*, MDPI, 12(2):220. doi:[10.3390/jmse12020220](https://doi.org/10.3390/jmse12020220)  
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64
- 18) Androulidakis Y., **Makris C.**, Kombiadou K., Krestenitis Y., Stefanidou N., Antoniadou C., Krasakopoulou E., Kalatzi M.I., Baltikas V., Moustaka-Gouni M., Chintiroglou C.C. (2024). Oceanographic research in Thermaikos Gulf: a review over five decades. *Journal of Marine Science and Engineering*, MDPI. (Submitted, under review)  
CS: 3.70; IF: 2.90; h5-index: 50; median h5-index: 64

## **B) BOOKS & BOOK CHAPTERS (3)**

### **B.1) PEER-REVIEWED BOOKS (1)**

- 1) Krestenitis, Y.N., Kombiadou, K.D., **Makris, C.V.**, Androulidakis, Y.S. and Karambas, T.V. (2015). *Coastal Engineering – Maritime Environmental Hydraulics*, Hellenic Academic Electronic Textbooks & Accessories, Association of Greek Academic Libraries, Kallipos Publications, NTUA, Athens, Greece. (in Greek) ISBN:[978-960-603-253-0](https://www.isbn-international.org/product/978-960-603-253-0)  
Citations: 9

### **B.2) PEER-REVIEWED BOOK CHAPTERS (2)**

- 2) **Makris, C.V.**, Krestenitis, Y.N. and Memos, C.D. (2010). SPH Numerical Simulation of Surf Zone Characteristics, In: *Environmental Hydraulics* (Eds: Christodoulou, G.C., Stamou, A.I.), CRC Press, Taylor & Francis Group, A Balkema Book, Two Volume Set: Proceedings of the 6<sup>th</sup> International Symposium on Environmental Hydraulics, Athens, Greece, 23-25 June 2010, Vol.1, Chapter 67, pp. 445–450. Print ISBN: 978-0-415-58475-3, eBook ISBN: [978-0-203-84123-5](https://www.isbn-international.org/product/978-0-203-84123-5), doi:[10.1201/b10553-71](https://doi.org/10.1201/b10553-71)  
Citations: 4
- 3) Krestenitis, Y., Pytharoulis, I., Karacostas, T., Androulidakis, Y., **Makris, C.**, Kombiadou, K., Tegoulis, I., Baltikas, V., Kotsopoulos, S. and Kartsios, S. (2017). Severe weather events and sea level variability over the Mediterranean Sea: the WaveForUs operational platform. In: *Perspectives of Atmospheric Sciences* (Eds: Karacostas, T., Bais, A., Nastos, P.T.), Springer Atmospheric Sciences, Springer International Publishing, COMECAP 2016 Proceedings, Pt.1: Meteorology, pp. 63-68. Print ISBN: 978-3-319-35094-3, Online ISBN: [978-3-319-35095-0](https://www.isbn-international.org/product/978-3-319-35095-0), doi:[10.1007/978-3-319-35095-0\\_9](https://doi.org/10.1007/978-3-319-35095-0_9)  
Citations: 23

**C) PUBLICATIONS IN THE PROCEEDINGS OF SCIENTIFIC CONFERENCES (68)****C.1) CONFERENCE PAPERS (51)**

- 1) **Makris, C.V.** and Memos, C.D. (2007). Wave Transmission over Submerged Breakwaters: Performance of Formulae and Models, *Proc. 17<sup>th</sup> International Offshore (Ocean) and Polar Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE), Lisbon, Portugal, 1-6 July 2007, pp. 2613-2620. [EID:2-s2.0-36448985995](#) (incl. oral presentation)  
*CS: 0.31; IF:0.37; h5-index: 15; median h5-index: 20; Citations: 25*
- 2) **Makris, C.V.**, Avgeris, I. and Memos, C.D. (2007). Hydraulic Behaviour of Submerged Breakwaters, *Proc. 4<sup>th</sup> Port Development and Coastal Environment Conference (PDCE)*, Black Sea Coastal Association, Varna, Bulgaria, 24-27 September 2007, pp. 269-278. [URL](#) (incl. oral presentation)  
*Citations: 4*
- 3) **Makris, C.V.** and Memos, C.D. (2008). Wave Transmission Through Submerged Breakwaters, *Proc. 4<sup>th</sup> Panhellenic Conference on Coastal Zone Management and Preservation (PCCZMP)*, Laboratory of Harbor Works, School of Civil Engineering, NTUA, Mytilene, Lesvos, Greece, 23-27 September 2008, pp. 247-256. [URL](#) (in Greek; incl. oral presentation)
- 4) **Makris, C.V.** and Krestenitis, Y.N. (2009). Free Educational Software on Maritime Hydrodynamics, Coastal Engineering and Oceanography, *Proc. 9<sup>th</sup> Panhellenic Symposium of Oceanography and Fisheries (PSOF)*, Hellenic Center of Marine Research, Lab. Of Marine Geology and Physical Oceanography, Dept. of Geology, University of Patras, Patras, Greece, 13-16 May 2009, Vol.1, pp. 546-551. [URL](#) (in Greek; incl. oral presentation)  
*Citations: 2*
- 5) **Makris, C.V.**, Memos, C.D. and Krestenitis, Y.N. (2009). Numerical Simulation of Near-Shore Wave Breaking using SPH Method, *Proc. of 4<sup>th</sup> International Short Conference on Applied Coastal Research (SCACR)*, IAHR, International Centre for Coastal Resources Research, Maritime Engineering Laboratory of UPC (LIM/UPC), Barcelona, Spain, 15-17 June 2009, pp. 241-252. [URL](#) (incl. oral presentation)  
*Citations: 6*
- 6) **Makris, C.V.**, Krestenitis, Y.N. and Memos, C.D. (2010). SPHysics code validation against a near-shore wave breaking experiment, *Proc. of 5<sup>th</sup> International SPH European Research Interest Community Workshop (SPHERIC)*, European Research Community on Flow Turbulence and Combustion (ERCOFTAC), University of Manchester, Manchester, UK, 23-25 June 2010, pp. 245-252. [URL](#) (incl. oral and poster presentation)  
*Citations: 6*
- 7) **Makris, C.V.**, Memos, C.D. and Krestenitis, Y.N. (2011). Modelling of breaking wave dynamics, surf zone turbulence and wave-induced mean flows with the SPH numerical method, *Proc. of 5<sup>th</sup> International Short Conference on Applied Coastal Research (SCACR)*, International Association of Hydraulic Engineering & Research (IAHR), Institute of Hydraulic Engineering and Water Resources



Management of RWTH Aachen University, Aachen, Germany, 6-9 June 2011, pp. 507-514. [URL](#) (incl. poster)

Citations: 4

- 8) **Makris**, C.V., Krestenitis, Y.N. and Memos, C.D. (2012). SPH modeling of plunging wave breaking, surf zone turbulence and wave-induced currents, *Proc. of 22<sup>nd</sup> International Offshore (Ocean) and Polar Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE), Rhodes, Greece, 17-22 June 2012, pp. 1204-1212. [EID:2-s2.0-84866133470](#) (incl. oral presentation) CS: 0.31; IF:0.37; h5-index: 15; median h5-index: 19; Citations: 5
- 9) **Makris**, C.V. and Krestenitis, Y.N. (2012). Numerical Simulation of the Hydrodynamic Features of Near-Shore Surf Zone with SPH Method, *Proc. 2<sup>nd</sup> Common Conference of Hellenic Hydrotechnic Union (EYE) & Hellenic Commission on Water Resources Management (EEDYP): Integrated Water Resources Management towards Sustainable Development*, Dept. of Civil Engineering, Academic Network Hydrokritis, TGC, Patras, 11-13 October 2012, pp. 1070-1082. [URL](#) (in Greek; incl. oral presentation)
- 10) Krestenitis, Y.N., Androulidakis, Y., Kombiadou, K., **Makris**, C., Baltikas, V., Kalantzi, G. (2014). WaveForUs: Pilot Sea-State Forecasting System in the Thermaikos Gulf, *Proc. of 5<sup>th</sup> Environmental Conference of Macedonia (PESYMA)*, Thessaloniki, Greece, 14-16 March 2014. (in Greek) [URL](#)
- 11) **Makris**, C.V., Memos, C.D. and Krestenitis, Y.N. (2014). On SPH Modelling of Surf Zone Turbulence Under Weak Plungers, *Proc. of 3<sup>rd</sup> International Association of Hydraulic Research Europe Congress*, IAHR, Porto, Portugal, 14-16 April 2014. Part of [ISBN:978-989-96479-2-3](#) (incl. oral presentation) Citations: 2
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#### **D) MISCELLANEOUS PUBLICATIONS – INVITED TALKS & PRESENTATIONS (13)**

- 1) **Makris, C.V. (2007)**. Review of the Numerical Simulation Method Smoothed Particle Hydrodynamics in Fluid Dynamics, *Post-graduate Studies Program Course 'Introduction of Research Methodology'*, Civil Engineering Dept., Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek; incl. oral presentation) [URL](#)
- 2) **Makris, C.V.**, Krestenitis, Y.N. and Memos, C.D. (2012). SPH modelling of plunging wave breaking, surf zone turbulence and wave-induced currents, *SPHERIC Newsletter*, Issue 15 - December 2012 (2-page abstract), SPH European Research Interest Community (SPHERIC), European Research Community on Flow Turbulence and Combustion (ERCOFTAC). [URL](#)
- 3) **Makris, C.V. (2015)**. Forecasts of Storm Tides: High-resolution Storm Surge Model, *Proceedings of the WaveForUs Final Results Meeting*, Invited Presentation, KE.D.E.A. Building, AUTH Research Committee, Thessaloniki, Greece, 9 June 2015. (in Greek; only oral presentation) [URL](#)
- 4) **Makris, C.V. (2015)**. Tsunamis: Generation, Impacts and Protection, *1<sup>st</sup> Scientific Weekend at TABYA*, Invited Presentation, TABYA multi-cultural space, Thessaloniki, Greece, 19-20 December 2015. [URL](#) (in Greek; only oral presentation)
- 5) **Makris, C.V. (2019)**. Monitoring of the Physicochemical Characteristics of the Marine Environment in the Thermaikos Gulf, *Marine Pollution: The Need for Education, Synergies and Actions*, Invited Presentation, 1<sup>st</sup> MARLITER Project Workshop, Thessaloniki Town Hall, Thessaloniki, Greece, 02 February 2019. [URL](#) (in Greek; only oral presentation)
- 6) Accu-Waves Team (2019). MarineTraffic collaborates with academia in Accu-waves project to build a decision support tool for navigation management in ports. *Hellenic Shipping News Worldwide*, Online Daily Newspaper on Hellenic and International Shipping, published 11/07/2019. [URL](#)



- 7) **Makris C.V. (2020)**. Promoting Technology Innovation in Environmental Monitoring & Modelling for Assessment of Fish Stock and Non-Fish Resources (TIMMOD Project). *MARLITER Project Online Training of Trainers Meeting*, 3 November 2020. [URL](#)  
Citations: 1
- 8) Krestenitis Y., **Makris Ch.**, Skoulikaris Ch., Baltikas V., Katirtzidou M., and Tolika K. (2021). Dissemination of Research Projects Results AUTH, Issue #9, January 2021, MEDAQCLIM Project. *Aristotle University of Thessaloniki Special Account of Research Funds' Newsletter #9* (January 2021), pp. 56-63. [URL](#)
- 9) Krestenitis Y., **Makris C.**, Androulidakis Y., Baltikas V., Kombiadou K. (2021) Climate Change: Sea Level Variations and Coastal Floods. *CLIMPACT Hellenic Network for Climate Change*, Newsletter #7, pp. 34-41. [URL](#)
- 10) Karambas T., **Makris C.**, Baltikas V. (2021). Operational Marine Weather Forecast Systems in Coastal Scales for Safe Navigation and Environmental Awareness of the General Public. Keynote Speech and Presentation in *WHITECLAM International Conference*, 18–19 October 2021, Varna, Bulgaria. [URL](#)  
Citations: 1
- 11) Krestenitis Y., Androulidakis Y., **Makris C.**, Baltikas V. (2022). Research on Storm Surges by the Oceanography and Coastal Engineering (OCE) Group, Aristotle University of Thessaloniki, *Storm Surge MONGOOS Pre-Seminar for Ocean Decade Co-Design Workshop*, 7-9 June 2022. [URL](#)
- 12) Karambas T., **Makris Ch.**, Baltikas V., Nagkoulis N., and Papageorgiou A. (2022). Dissemination of Research Projects Results AUTH, Issue #25, June 2022, TIMMOD Project. *Aristotle University of Thessaloniki Special Account of Research Funds' Newsletter #25* (June 2022), pp. 42-51. [URL](#)
- 13) Karambas T., **Makris Ch.**, Androulidakis Y., Kontos Y., Baltikas V., Nagkoulis N., Kazakis I., and Papageorgiou A. (2022). Dissemination of Research Projects Results AUTH, Issue #27, August 2022, Accu-Waves Project. *Aristotle University of Thessaloniki Special Account of Research Funds' Newsletter #27* (August 2022), pp. 53-60. [URL](#)

### **TECHINCAL REPORTS IN ACADEMIC RESEARCH PROJECTS (Total: 60)**

- 1) Memos, C.D., **Makris, C.V.** and Patargia, A. (2006a). *Aqaba Saraya Project, Wave Penetration and Hydrodynamics Modeling in a Coastal Lagoon near Aqaba, Part I: Wave Modeling*, Project Managers: Dr. Kamhawi & Dr. A. Toumazis (LACECO Lebanon, KW Ltd London), DWRHMW, School of Civil Engineering, NTUA, Athens, Greece.
- 2) Memos, C.D., **Makris, C.V.** and Patargia, A. (2006b). *Saraya Aqaba Project, Submerged Breakwaters and Coastal Works, Part 1.0: Desk Study*, Project Managers: Dr. Kamhawi & Dr. A. Toumazis (LACECO Lebanon, KW Ltd London), DWRHMW, School of Civil Engineering, NTUA, Athens, Greece.
- 3) Memos, C.D., Stamou, A., Demetriades, P., **Makris, C.V.**, Politis, M. and Patargia, A. (2006). *Saraya Aqaba Project, Wave Penetration and Hydrodynamics Modeling in a Coastal Lagoon near Aqaba, Part II: Hydrodynamics Modeling*, Project Managers: Dr. Kamhawi & Dr. A. Toumazis (LACECO Lebanon, KW Ltd London), DWRHMW, School of Civil Engineering, NTUA, Athens, Greece.
- 4) **Makris, C.V.** and Krestenitis, Y.N. (2008a). *Educational Software for the Course 'Coastal Technical Works' (9<sup>th</sup> Semester)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)

- 5) **Makris, C.V.** and Krestenitis, Y.N. (2008b). *Educational Software for the Course 'Coastal Engineering and Harbor Works' (7<sup>th</sup> Semester)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (in Greek)
- 6) Krestenitis, Y., Athanassoulis, G., Belibassakis, K., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Gavriiladis, P., Georgiou, G., Gerostathis, T., Kapelonis, Z. and Tsantili, I. (2014a). *New database for time series of wave heights, mean wave period, mean wave direction, storm surges and sea levels for the time periods 1951-2000 and 2001-2100*, First Annual Technical Report of WP2.1, Work CCSEAWAVS, Project THALES, Thessaloniki.
- 7) Krestenitis, Y., Athanassoulis, G., Belibassakis, K., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Gavriiladis, P., Georgiou, G., Gerostathis, T., Kapelonis, Z. and Tsantili, I. (2014b). *Estimation of the correlation of the studied meteorological parameters with waves, storm surges and sea level*, Second Annual Technical Report of WP2.2, CCSEAWAVS, Project THALES, Thessaloniki.
- 8) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., et al. (2014). *WaveForUs First Annual Technical Report of WP1*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), LMEMW AUTH, Lab. of Meteorology and Climatology AUTH, Omikron Ltd., DION TV, Regional Authority of Central Macedonia, COOPERATION 2011 Project, Thessaloniki, Greece. (in Greek)
- 9) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Skoulikaris, C., Kontos, Y., Pytharoulis, Y., Karakostas, Th., Katragou, E., Kotsopoulos, S., Babzelis, D. and Tegoulis, Y. (2014). *Wave-Circulation-Storm Surge 3-day forecasts – development, calibration and validation of models*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), First Annual Technical Report of WP2.1, LMEMW, Lab. of Meteorology and Climatology, COOPERATION 2011 Project, Thessaloniki, Greece. (in Greek)
- 10) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Pytharoulis, Y., Karakostas, Th., Katragou, E., Kotsopoulos, S., Babzelis, D. and Tegoulis, Y. (2014). *Coastal Inundation Risk Bulletins - development, calibration and validation of storm surge model*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), Second Annual Technical Report of WP2.2, LMEMW, Lab. of Meteorology and Climatology, COOPERATION 2011 Project, Thessaloniki, Greece. (in Greek)
- 11) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Skoulikaris, C., Kontos, Y., Pytharoulis, Y., Karakostas, Th., Katragou, E., Kotsopoulos, S., Babzelis, D. and Tegoulis, Y. (2015). *Wave-Circulation-Storm Surge 3-day forecasts – operational implementation of models*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), First Annual Technical Report of WP5.2, LMEMW, Lab. of Meteorology and Climatology, COOPERATION 2011 Project, Thessaloniki, Greece. (in Greek)
- 12) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris, C.**, Baltikas, V., Pytharoulis, Y., Karakostas, Th., Katragou, E., Kotsopoulos, S., Babzelis, D. and Tegoulis, Y. (2015). *Coastal Inundation Risk Bulletins - operational implementation of storm surge model*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), Second Annual Technical Report of WP5.3, LMEMW, Lab. of Meteorology and Climatology, COOPERATION 2011 Project, Thessaloniki, Greece. (in Greek)

- 13) Krestenitis, Y.N., Karambas, Th., Androulidakis, Y., Kombiadou, K., **Makris**, C., Baltikas, V., et al. (2015). *Project Evaluation - Future Prospects Assessment*, Research Work WaveForUs (Wave climate and coastal circulation Forecasts for public Use), Final Project Report of WP6.1, LMEMW, Lab. of Meteorology and Climatology, COOPERATION 2011 Project, Thessaloniki, Greece. (*in Greek*)
- 14) Darakas, E., Petala, M., Tsiridis, V., Androulidakis, Y., **Makris**, C., Baltikas, V., Moustaka, M., Genitsaris, S., Stefanidou, N., Chintiroglou, C.-S., Antoniadou, C. & Rammou, D.-L. (2018). *Monitoring the quality of the marine environment of Thermaikos Gulf*. Final Technical Report for 2017 Cycle of Observations, in account of EYATH S.A., AUTH, Thessaloniki, Greece.
- 15) Darakas, E., Petala, M., Tsiridis, V., Androulidakis, Y., **Makris**, C., Baltikas, V., Moustaka, M., Genitsaris, S., Stefanidou, N., Chintiroglou, C.-S., Antoniadou, C. & Rammou, D.-L. (2019). *Monitoring the quality of the marine environment of Thermaikos Gulf*. Final Technical Report for 2018 Cycle of Observations, in account of EYATH S.A., AUTH, Thessaloniki, Greece.
- 16) Darakas, E., Petala, M., Tsiridis, V., Androulidakis, Y., **Makris**, C., Baltikas, V., Moustaka, M., Genitsaris, S., Stefanidou, N., Chintiroglou, C.-S., Antoniadou, C. & Rammou, D.-L. (2020). *Monitoring the quality of the marine environment of Thermaikos Gulf*. Final Technical Report for 2019 Cycle of Observations, in account of EYATH S.A., AUTH, Thessaloniki, Greece.
- 17) Krestenitis, Y.N., Ganoulis, J., Skoulikaris, Ch., **Makris**, Ch., Baltikas, V. and Tolika, K. (2019). *Climate Modelling Tasks*, Deliverable D6, Technical Report of WP1, Research Project MEDAQCLIM, Division of Hydraulics and Environmental Engineering, Dept. of Civil Engineering, AUTH, Thessaloniki, Greece.
- 18) Krestenitis, Y.N., Ganoulis, J., Tolika, K., **Makris**, Ch., Skoulikaris, Ch., and Baltikas, V. (2019). *Hydrological Modelling Tasks*, Deliverable D7, Technical Report of WP2, Research Project MEDAQCLIM, Division of Hydraulics and Environmental Engineering, Dept. of Civil Engineering, AUTH, Thessaloniki, Greece.
- 19) Ch. **Makris**, Ch. Skoulikaris, M. Katirtzidou, V. Baltikas, Y.N. Krestenitis, K. Tolika (2020). *Optimization/socio-economic modelling tasks*. Deliverable D9, WP3: Integrated modelling of surface-subsurface and water-plant-soil-atmosphere interactions under climate change, MEDAQCLIM Project, ERANET-MED Program, AUTH, Thessaloniki, Greece, December 2020.
- 20) Ch. Skoulikaris, Ch. **Makris**, M. Katirtzidou, V. Baltikas, Y.N. Krestenitis (2020). *Water resources management models/scenarios*. Deliverable D11, WP4: Applications to selected case studies: databases, GIS, numerical modelling, and socio-economic scenarios, MEDAQCLIM Project, ERANET-MED Program, AUTH, Thessaloniki, Greece, December 2020.
- 21) M. Katirtzidou, Ch. Skoulikaris, Ch. **Makris**, V. Baltikas, Y.N. Krestenitis (2020). *Socio-economic vulnerability maps*. Deliverable D12, WP5: Socio-Economic Vulnerability Assessment – From modelling to GIS mapping, MEDAQCLIM Project, ERANET-MED Program, AUTH, Thessaloniki, Greece, December 2020.
- 22) Y.N. Krestenitis, Ch. Skoulikaris, Ch. **Makris**, M. Katirtzidou, V. Baltikas (2020). *Management report*. Deliverable D13, WP6: Management, reporting and dissemination, MEDAQCLIM Project, ERANET-MED Program, AUTH, Thessaloniki, Greece, December 2020.
- 23) Chondros M., **Makris** C. et al. (2019). *Description of Input Data in Maritime Forecasting Models and Methodology of Big Data Management*. Technical Report Π.1.3. Project: Accu-Waves, Program: RESEARCH – CREATE – INNOVATE. Partners: Laboratory of Harbor Works NTUA, Laboratory of Maritime Engineering AUTH, Marine Traffic. (*in Greek*)

- 24) Spiliopoulos G., Zissis D., **Makris C.** et al. (2020). *Database of input for hydrodynamic modelling*. Deliverable Π.1.4. Project: Accu-Waves, Program: RESEARCH – CREATE – INNOVATE. Partners: Laboratory of Harbor Works NTUA, Laboratory of Maritime Engineering AUTH, Marine Traffic. (in Greek)
- 25) **Makris C.** et al. (2020). *Presentation and evaluation of hydrodynamic simulations*. Technical Report Π.2.5. Project: Accu-Waves, Program: RESEARCH – CREATE – INNOVATE. Partners: Laboratory of Harbor Works NTUA, Laboratory of Maritime Engineering AUTH, Marine Traffic. (in Greek)
- 26) Baltikas V., Kontos Y., **Makris C.** et al. (2020). *Description of computer applications and hydrodynamic simulation codes*. Technical Report Π.2.6. Project: Accu-Waves, Program: RESEARCH – CREATE – INNOVATE. Partners: Laboratory of Harbor Works NTUA, Laboratory of Maritime Engineering AUTH, Marine Traffic. (in Greek)
- 27) Κλωνάρης Γ., Χριστόπουλος Σ., **Μακρής Χ.**, Μεταλληνός Α., Μπαλτίκας Β., Κοντός Ι., Παπαδημητρίου Α., Χονδρός Μ., Ναγκούλης Ν., Μαλλιούρη Δ., Καζάκης Ι., Ανδρουλιδάκης Ι., Παπαγεωργίου Α., Εμμανουηλίδου Μ.Ε., Μέμος Κ., Καραμπάς Θ., Τσουκαλά Β. (2021). *Τεχνική έκθεση αξιολόγησης της πρακτικής εφαρμογής των υδροδυναμικών μοντέλων σε λιμένες*, Τεχνική Έκθεση Π.3.5. Έργο: Accu-Waves, Πρόγραμμα: ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ. Φορείς: Εργαστήριο Λιμενικών Έργων ΕΜΠ, Εργαστήριο Θαλάσσιας Τεχνικής ΑΠΘ, Marine Traffic.
- 28) Σπηλιόπουλος Ι., **Μακρής Χ.**, Παπαδημητρίου Α., Μεταλληνός Α., Μπαλτίκας Β., Κοντός Ι., Χονδρός Μ., Ναγκούλης Ν., Μαλλιούρη Δ., Καζάκης Ι., Ανδρουλιδάκης Ι., Παπαγεωργίου Α., Εμμανουηλίδου Μ.Ε., Μέμος Κ., Καραμπάς Θ., Τσουκαλά Β., Ζήσης Δ. (2021). *Τεχνική έκθεση αξιολόγησης της εφαρμογής του εργαλείου υποστήριξης αποφάσεων*, Τεχνική Έκθεση Π.3.6. Έργο: Accu-Waves, Πρόγραμμα: ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ. Φορείς: Εργαστήριο Λιμενικών Έργων ΕΜΠ, Εργαστήριο Θαλάσσιας Τεχνικής ΑΠΘ, Marine Traffic.
- 29) Σπηλιόπουλος Ι., **Μακρής Χ.**, Παπαδημητρίου Α., Μεταλληνός Α., Μπαλτίκας Β., Κοντός Ι., Χονδρός Μ., Ναγκούλης Ν., Μαλλιούρη Δ., Καζάκης Ι., Ανδρουλιδάκης Ι., Παπαγεωργίου Α., Εμμανουηλίδου Μ.Ε., Μέμος Κ., Καραμπάς Θ., Τσουκαλά Β., Ζήσης Δ. (2021). *Τεχνική έκθεση αξιολόγησης της εφαρμογής του εργαλείου υποστήριξης αποφάσεων*, Τεχνική Έκθεση Π.4.1. Έργο: Accu-Waves, Πρόγραμμα: ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ. Φορείς: Εργαστήριο Λιμενικών Έργων ΕΜΠ, Εργαστήριο Θαλάσσιας Τεχνικής ΑΠΘ, Marine Traffic.
- 30) Σπηλιόπουλος Ι., **Μακρής Χ.**, Παπαδημητρίου Α., Μεταλληνός Α., Μπαλτίκας Β., Κοντός Ι., Χονδρός Μ., Ναγκούλης Ν., Μαλλιούρη Δ., Καζάκης Ι., Ανδρουλιδάκης Ι., Παπαγεωργίου Α., Εμμανουηλίδου Μ.Ε., Μέμος Κ., Καραμπάς Θ., Τσουκαλά Β., Ζήσης Δ. (2021). *Συμβόλαιο ρύθμισης πνευματικών δικαιωμάτων μεταξύ των εταίρων*, Τεχνική Έκθεση Π.5.1. Έργο: Accu-Waves, Πρόγραμμα: ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ. Φορείς: Εργαστήριο Λιμενικών Έργων ΕΜΠ, Εργαστήριο Θαλάσσιας Τεχνικής ΑΠΘ, Marine Traffic.
- 31) Σπηλιόπουλος Ι., **Μακρής Χ.**, Παπαδημητρίου Α., Μεταλληνός Α., Μπαλτίκας Β., Κοντός Ι., Χονδρός Μ., Ναγκούλης Ν., Μαλλιούρη Δ., Καζάκης Ι., Ανδρουλιδάκης Ι., Παπαγεωργίου Α., Εμμανουηλίδου Μ.Ε., Μέμος Κ., Καραμπάς Θ., Τσουκαλά Β., Ζήσης Δ. (2021). *Ρύθμιση δικαιωμάτων και κανόνων για την εμπορική αξιοποίηση του προϊόντος της έρευνας*, Τεχνική Έκθεση Π.5.2. Έργο: Accu-Waves, Πρόγραμμα: ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ. Φορείς: Εργαστήριο Λιμενικών Έργων ΕΜΠ, Εργαστήριο Θαλάσσιας Τεχνικής ΑΠΘ, Marine Traffic.

- 32) TIMMOD Team (2020). Deliverable D.T1.1.1 Technical report on the situational analysis and recommendations to increase the efficiency of use of existing (available) methods and tools (14/11/2020). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 33) TIMMOD Team (2021). Deliverable D.T1.2.1 Technical Report on “Inventory on Technology Innovations in marine environmental monitoring and assessment of fish stock and non-fishing recourses (14/02/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 34) TIMMOD Team (2021). Deliverable D.T1.3.1 Technical report on “Recommendations on adoption of appropriate technology innovation and best practices for marine environmental monitoring at Black Sea (14/09/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 35) TIMMOD Team (2021). Deliverable D.T2.1.1 Web-based open GIS tool for implementation of modelled data by stakeholders and end-users, including a database of hydro-environmental monitoring and modelling output and future projections (14/09/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 36) TIMMOD Team (2021). Deliverable D.T2.2.1 Technical report on results and impacts of advanced methods in coupled oceanographic – hydrodynamic modelling (14/11/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 37) TIMMOD Team (2021). Deliverable D.T2.3.1 Technical report on results and impacts of advanced methods in coupled hydrodynamic – environmental/ ecological modeling (14/12/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 38) TIMMOD Team (2022). Deliverable D.T2.4.1 Operational forecast platform (OFP) for water quality/circulation in the Black Sea, integrated and tested in 2 coastal sites (Varna, Batumi) (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 39) TIMMOD Team (2022). Deliverable D.T2.4.2 Web-based tools, codes, smart phone apps and SMS mobile services for forecast data acquisition and management, and water quality updates or alerts (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 40) TIMMOD Team (2022). Deliverable D.T2.4.3 Project public web site with Marine Water Quality Service (MWQS) incorporating OFP and web-GIS platform (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 41) TIMMOD Team (2022). Deliverable D.T2.5.1 Technical report on recommended best practices and guidelines for end-users and authorities (14/03/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 42) TIMMOD Team (2022). Deliverable D.T2.5.2 Framework of actions for fisheries and aquacultures in the Black Sea including Water Quality Indices (WQIs) and associated indicators from Environmental Impact Assessments (EIA) (14/03/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 43) TIMMOD Team (2021). Deliverable D.T3.1.1 Pilot Test Demonstration program (14/08/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 44) TIMMOD Team (2022). Deliverable D.T3.2.1 Technical report: Progress at setting-up 2 pilot test demonstration sites (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.

- 45) TIMMOD Team (2022). Deliverable D.T3.3.1 Review and Evaluation Report of training on hydro-acoustic sounder practical application (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 46) TIMMOD Team (2022). Deliverable D.T3.3.2 Pilot Demonstration Project Report: Part 1: Marine Survey Bulgaria Part 2: Marine Survey Georgia (14/01/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 47) TIMMOD Team (2022). Deliverable D.T3.4.1 Review-Report of applied methodologies and recommendations (14/04/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 48) TIMMOD Team (2021). Deliverable D.T4.2.1 Draft Innovation Strategy to improve joint monitoring, data sharing and cross-border information exchange systems in compliance with MSFD and DCF (14/11/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 49) TIMMOD Team (2021). Deliverable D.T4.1.1 Technical Report -Study on transboundary coordination mechanisms, available organisational and human resources in the area, and their relevance to the planned technological upgrade. Identifying priority issues, set in accordance to the MSFD and DCF (14/01/2021). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 50) TIMMOD Team (2022). Deliverable D.T4.3.1 Proceedings (from each partner country) of the National Validation Workshops (in electronic format) (14/02/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 51) TIMMOD Team (2022). Deliverable D.T4.4.1 Proceedings of the Strategy Validation Workshop (in electronic format (14/05/2022).
- 52) TIMMOD Team (2022). Deliverable D.T4.4.2 Validated "Innovation Strategy" (14/05/2022). Technical Report, TIMMOD Project, Reference No. BSB-1029, Varna, Bulgaria.
- 53) TIMMOD Team (2022). Output Report T1.1. Raised awareness & improved regional cooperation of R&D organisations in technology innovation of marine monitoring for assessment of fish stock & non-fish resources, achieved by organization of 2 Thematic Trans-boundary Meetings (TTM 1&2).
- 54) TIMMOD Team (2022). Output Report T2.1. A set of 4 ICT monitoring data handling and numerical modelling tools, integrated in a Pilot Monitoring & Modelling Data Sharing Platform (MMDSP).
- 55) TIMMOD Team (2022). Output Report T3.1. Improved technological expertise and practical skills of research institutions in use of innovative tools for monitoring, modelling, and data acquisition, achieved by joint participation in a Pilot Demonstration Project (at 2 demo sites).
- 56) TIMMOD Team (2022). Output Report T3.2. Improved capacity of research institutions for cross-border compatible exchange of environmental monitoring data and information, resulting from 2 Thematic Transboundary Meetings for discussion of Pilot Demonstration Project results.
- 57) TIMMOD Team (2022). Output Report O.T4.1. A coherent Black Sea Strategy for advancement in technology innovation in R&D organisations and innovation agencies in the area of monitoring, modelling, and cross-border data exchange, validated at 5 National and one Regional Validation Workshops.
- 58) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Α. Στεφανίδου, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης (2021). *Σταθμοί μέτρησης – πρόγραμμα μετρήσεων, Τεχνική Έκθεση – Παραδοτέο Π0, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου*

χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.

- 59) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης, Ζ. Καμπουράκη, Φ. Σακκαβέλη, Α. Στεφανίδου, Μ. Δερμετζιόγλου (2022). *Βιβλιογραφική ανασκόπηση - Αρχικά αποτελέσματα μετρήσεων - Μετεωρολογικά και ωκεανογραφικά στοιχεία*, Τεχνική Έκθεση – Παραδοτέο Π1, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.
- 60) Γ.Ν. Κρεστενίτης, Ε. Νταρακάς, Ι. Ανδρουλιδάκης, Χ. **Μακρής**, Β. Τσιρίδης, Μ. Πεταλά, Χ. Αντωνιάδου, Β. Μπαλτίκας, Β. Κολοβογιάννης, Ζ. Καμπουράκη, Φ. Σακκαβέλη, Α. Στεφανίδου, Μ. Δερμετζιόγλου (2023). *Τελική Τεχνική Έκθεση – Παραδοτέο Π2*, Έργο: Χαρτογράφηση πιέσεων και αποτίμηση εξωτερικών και εσωτερικών φορτίων θρεπτικών και οργανικού υλικού για την προστασία και διαχείριση του θαλάσσιου χώρου περιοχής αρμοδιότητας του ΦΔΠΠ Θερμαϊκού Κόλπου. MIS 5045794 Ε.Π. Κεντρική Μακεδονία 2014-2020.

### **RESEARCHER PERFORMANCE METRICS\*\*\***

\*\*\* derived from Google Scholar, ResearchGate, Scopus, etc.

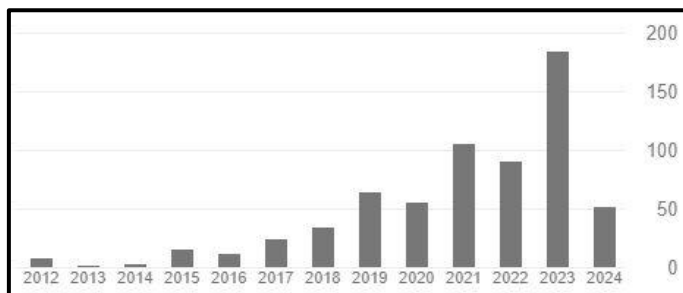
<i>h</i> -index:	max value <i>h</i> such that <i>h</i> publications have at least <i>h</i> citations
<i>h5</i> -index:	<i>h</i> -index for last 5 years for the journal/proceedings of each published paper
<i>i10</i> - and <i>i1</i> -index:	number of publications with at least 10 and 1 citations, respectively
$C_{max}$ :	number of citations of the most cited publication
RI Score:	ResearchGate total research interest

Impact	Total CS points: <b>82.43</b>	Total IF points: <b>50.88</b>
	Total <i>h5</i> -index points: <b>725</b>	Total median <i>h5</i> -index points: <b>978</b>
	RI score: <b>876</b>	

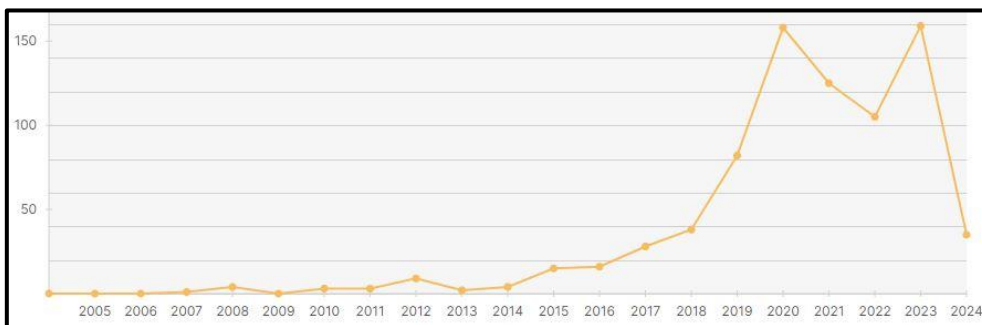
#### Citation Scores

<i>Parameter</i>	<i>Measured</i>	<i>Google Scholar</i>	<i>ResearchGate</i>	<i>Scopus</i>
Citations	<b>751</b>	<b>663</b>	<b>791</b>	<b>306</b>
Heterocitations	<b>396</b> (52.7%)	<b>396</b> (59.7%)	<b>354</b> (44.8%)	<b>241</b> (78.8%)
<i>h</i> -index	<b>15</b>	<b>14</b>	<b>15</b>	<b>10</b>
<i>i10</i> -index	<b>19</b>	<b>19</b>	<b>23</b>	<b>12</b>
<i>i1</i> -index	<b>71</b>	<b>53</b>	<b>67</b>	<b>18</b>
$C_{max}$	<b>122</b>	<b>121</b>	<b>119</b>	<b>78</b>
Documents	<b>106</b>	<b>123</b>	<b>123</b>	<b>22</b>

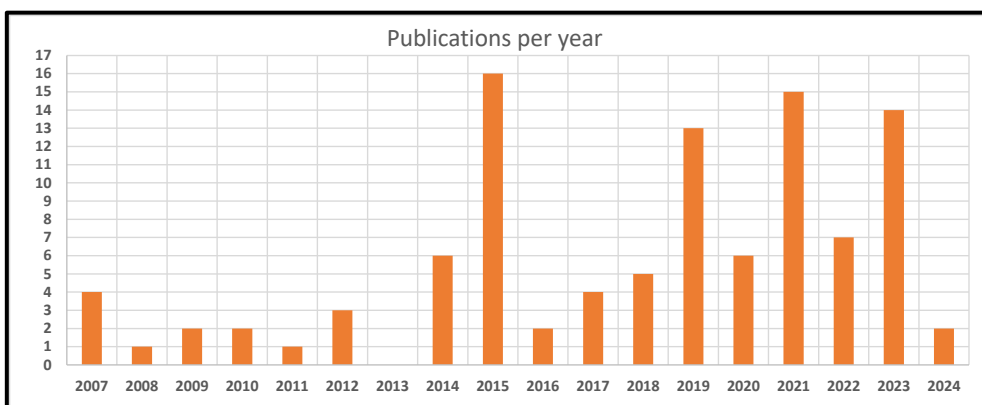
Oral Presentations	Total: <b>37</b>	International: <b>22</b>	National: <b>12</b>	Invited Speeches: <b>3</b>
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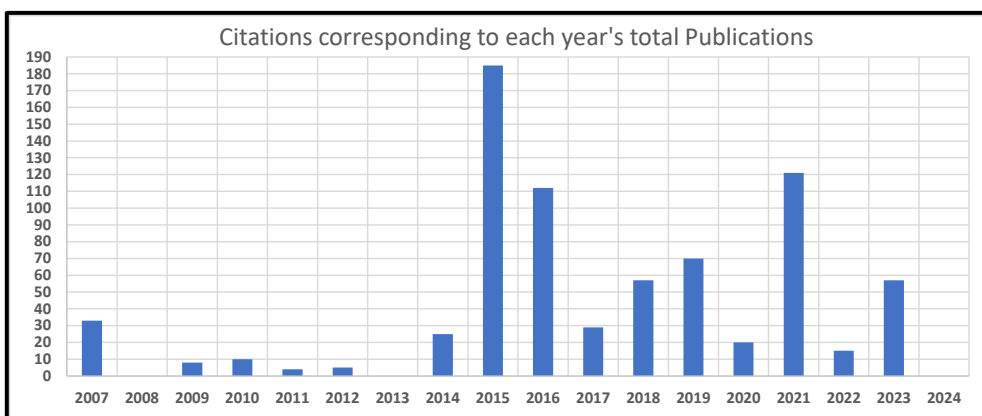
Citations per year based on Google Scholar database



Citations per year based on ResearchGate database

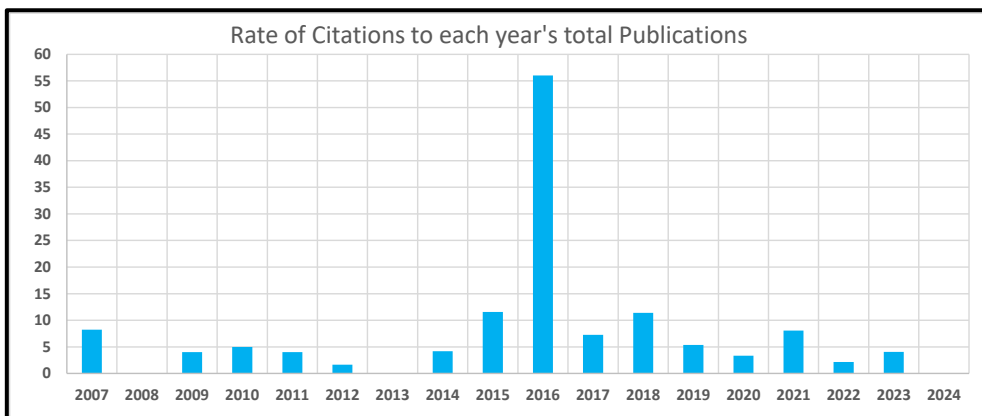


Annual productivity of Publications



Productivity of Citations corresponding to each year's total amount of Publications





Impact Productivity by a ratio of Citations to each year's total Publications

Aggregated Info on Scientific Publications					
Type of Publication	Total	1 <sup>st</sup> Author	2 <sup>nd</sup> Author	Other	Average Authors / Publication
Peer-reviewed Journal Articles	18	7/18	8/18	3/18	7.17
Peer-reviewed Books & Book Chapters	3	1/3	-	2/3	6.00
Peer-reviewed and Non-refereed Papers in Conference Proceedings	51	24/51	12/51	15/51	5.86
Conference Abstracts	17	6/17	4/17	7/17	6.47
Miscellaneous Publications	13	6/13	5/13	2/13	4.15
Theses / Dissertations	4	4/4	-	-	1.25
<b>SUM OF PUBLICATIONS</b>	<b>106</b>	<b>48/106</b>	<b>29/106</b>	<b>29/106</b>	<b>5.15</b>

Highlights

Citation of Article A.1.2 by Makris et al. (2016) in the seminal Academic Book “Sumer B.M. and Fuhrman D.R. (2020). *Turbulence in Coastal and Civil Engineering*. World Scientific. Advanced Series on Ocean Engineering, Vol. 51” [doi:10.1142/10829](https://doi.org/10.1142/10829), which cites only established mature papers in their discipline.

Inclusion of author C. Makris to the international “Citation Network by Author” in the meta-analysis of the bibliometric paper “Leal, K.B., Robaina, L.E.D.S. and De Lima, A.D.S., 2022. Coastal impacts of storm surges on a changing climate: a global bibliometric analysis. *Natural Hazards*, 114(2), pp.1455-1476.” [doi:10.1007/s11069-022-05432-6](https://doi.org/10.1007/s11069-022-05432-6) about issues relevant to climate change and storm surges. Figure 8 presents the cluster analysis of the authors, for which, at least 3 published papers were cited 4 times by other researchers.

No. 3 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: port engineering

No. 10 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: coastal flooding

No. 34 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: storm surge

No. 57 in the international ranking order of cited researchers according to GoogleScholar database for the keyword/label: water waves

### **REVIEWER FOR SCIENTIFIC JOURNALS & CONFERENCES (Total: 28; Reviews: 58)**

Journals	1) Ocean Modelling, Elsevier (x2) CS: 6.40; IF: 3.29; h5-index: 34; median h5: 46 <a href="https://www.journals.elsevier.com/ocean-modelling">https://www.journals.elsevier.com/ocean-modelling</a>
	2) Ocean Dynamics, Springer (x2) CS: 3.70; IF: 2.20; h5-index: 26; median h5: 33 <a href="https://link.springer.com/journal/10236">https://link.springer.com/journal/10236</a>
	3) Ocean Engineering, Elsevier (x1) CS: 6.50; IF: 4.37; h5-index: 72; median h5: 85 <a href="https://www.journals.elsevier.com/ocean-engineering">https://www.journals.elsevier.com/ocean-engineering</a>
	4) Advances in Water Resources, Elsevier (x1) CS: 9.00; IF: 5.36; h5-index: 58; median h5: 72 <a href="https://www.journals.elsevier.com/advances-in-water-resources">https://www.journals.elsevier.com/advances-in-water-resources</a>
	5) Natural Hazards and Earth System Sciences, EGU (x2) CS: 7.20; IF: 4.58; h5-index: 48; median h5: 58 <a href="https://www.natural-hazards-and-earth-system-sciences.net/index.html">https://www.natural-hazards-and-earth-system-sciences.net/index.html</a>
	6) Journal of Operational Oceanography, Taylor & Francis (x1) CS: 7.00; IF: 4.21; h5-index: 18; median h5: 26 <a href="https://www.tandfonline.com/journals/tjoo20">https://www.tandfonline.com/journals/tjoo20</a>
	7) Acta Geophysica, Springer Nature (x3) CS: 2.60; IF: 2.29; h5-index: 26; median h5: 40 <a href="https://www.springer.com/journal/11600">https://www.springer.com/journal/11600</a>
	8) Journal of Marine Research, Yale University (x1) h5-index: 26; median h5: 40 <a href="http://www.journalofmarineresearch.org/">http://www.journalofmarineresearch.org/</a>
	9) Journal of Marine Science and Engineering, MDPI (x12) CS: 2.80; IF: 2.74; h5-index: 37; median h5: 47 <a href="http://www.mdpi.com/journal/jmse">http://www.mdpi.com/journal/jmse</a>
	10) Applied Sciences, MDPI (x2) CS: 3.70; IF: 2.84; h5-index: 105; median h5: 140 <a href="https://www.mdpi.com/journal/applsci">https://www.mdpi.com/journal/applsci</a>

- 11) Energies, MDPI (x1)  
CS: 5.00; IF: 3.25; h5-index: 108; median h5: 146  
<https://www.mdpi.com/journal/energies>
- 12) Climate, MDPI (x1)  
CS: 4.70; h5-index: 36; median h5: 49  
<https://www.mdpi.com/journal/climate>
- 13) Hydrology, MDPI (x1)  
CS: 3.60; h5-index: 27; median h5: 33  
<https://www.mdpi.com/journal/hydrology>
- 14) Mediterranean Marine Science, HCMR (x4)  
CS: 3.60; IF: 3.02; h5-index: 22; median h5: 33  
<https://ejournals.epublishing.ekt.gr/index.php/hcmr-med-mar-sc>
- 15) Natural Hazards Research, KeAi, Elsevier (x2)  
<https://www.sciencedirect.com/journal/natural-hazards-research>
- 16) Regional Studies in Marine Science, Elsevier (x1)  
CS: 2.30; IF: 2.17; h5-index: 26; median h5: 31  
<https://www.sciencedirect.com/journal/regional-studies-in-marine-science>
- 17) Computational Particle Mechanics, Springer (x1)  
CS: 3.30; IF: 3.12; h5-index: 25; median h5: 30  
<https://www.springer.com/journal/40571>
- 18) Coasts, MDPI (x1)  
<https://www.mdpi.com/journal/coasts>
- 19) Theoretical and Applied Climatology, Springer (x1)  
CS: 5.10; IF: 3.40; h5-index: 57; median h5: 74  
<https://www.springer.com/journal/704>
- 20) GeoHazards, MDPI (x1)  
<https://www.mdpi.com/journal/geohazards>
- 21) Journal of Hydroinformatics, IWA Publishing (x1)  
CS: 4.50; IF: 2.70; h5-index: 30; median h5: 45  
<https://www2.cloud.editorialmanager.com/hydro/default2.aspx>
- 22) Frontiers in Marine Science, Frontiers (x1)  
CS: 5.20; IF: 3.70; h5-index: 93; median h5: 135  
<https://www.frontiersin.org/journals/marine-science>
- 23) Estuarine, Coastal and Shelf Science, Elsevier (x1)  
CS: 5.50; IF: 2.80; h5-index: 50; median h5: 66  
<https://www.sciencedirect.com/journal/estuarine-coastal-and-shelf-science>
- 24) Earth Surface Processes and Landforms, Wiley (x1)  
CS: 7.00; IF: 3.30; h5-index: 45; median h5: 60  
<https://onlinelibrary.wiley.com/journal/10969837>
- 25) Behaviour & Information Technology, Taylor & Francis (x1)  
CS: 6.80; IF: 3.70; h5-index: 55; median h5: 76  
<https://www.tandfonline.com/journals/tbit20>

- Conferences
- 1) International Offshore and Polar Engineering (ISOPE) Conference (x9)  
<http://www.isopec.org/conferences/conferences.htm>
  - 2) Protection and Restoration of the Environment (PRE) Conference (x2)  
<http://pre13.civil.auth.gr/>
  - 3) International Conference on Design and Management of Port, Coastal and Offshore Works (DMPCO) (x1)  
<https://dmpco.eu/>

**Total Reviews** **58**

Journal Paper Reviews 46

Conference Paper Reviews 12

**EDITOR OF SCIENTIFIC JOURNALS (Total: 3)**

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Guest Editor

- 1) Special Issue "Hydrodynamic Circulation Modelling in the Marine Environment" of MDPI's *Journal of Marine Science and Engineering* (ISSN 2077-1312). This special issue belongs to the section "Physical Oceanography". [https://www.mdpi.com/journal/jmse/special\\_issues/hydrodynamic\\_circulation](https://www.mdpi.com/journal/jmse/special_issues/hydrodynamic_circulation)
- 2) Special Issue "Modeling of Flood Hazard and Assessment of Inundation Impacts, Vulnerability and Risk in Coastal Areas" of MDPI's *Water* (ISSN 2073-4441). This special issue belongs to the section "Hydrology". [https://www.mdpi.com/journal/water/special\\_issues/U36ZQ0S8WF](https://www.mdpi.com/journal/water/special_issues/U36ZQ0S8WF)

Topic Editor

- 3) MDPI's *Water* (EISSN 2073-444). <https://www.mdpi.com/journal/water>

**EDITOR OF SCIENTIFIC CONFERENCE PROCEEDINGS**

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- 1) Book of Abstracts for 2<sup>nd</sup> International Conference on Design and Management of Port, Coastal, and Offshore Works (DMPCO), 24-27 May 2023, AUTH Research Dissemination Center, Thessaloniki, Greece, Editors Th. Karambas, E. Loukogeorgaki, C. Makris
- 2) Book of Proceedings for 2<sup>nd</sup> International Conference on Design and Management of Port, Coastal, and Offshore Works (DMPCO), 24-27 May 2023, AUTH Research Dissemination Center, Thessaloniki, Greece, Editors Th. Karambas, E. Loukogeorgaki, C. Makris

**PROFESSIONAL EXPERIENCE IN ORGANIZING MEETINGS AND WORKSHOPS**

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Organizing Committee

- 1) WaveForUs Program Closure Workshop, Division of Hydraulics and Environmental Engineering, School of Civil Engineering, AUTH, KE.D.E.A. Building, AUTH Research Committee, Thessaloniki, Greece, 9 June 2015.
- 2) CCSEAWAVS Program Closure Workshop, Division of Hydraulics and Environmental Engineering, School of Civil Engineering, AUTH, KE.D.E.A. Building, AUTH Research Committee, Thessaloniki, Greece, 15 November 2015.

- 3) 1<sup>st</sup> Scientific Weekend at TABYA, TABYA multi-cultural space, 19-20 December 2015, Thessaloniki, Greece.
- 4) 2-day Workshop and Seminar: 2<sup>nd</sup> Transboundary Thematic Meeting of TIMMOD Project (ENI-CBC Black Sea Basin 2019), 19-20 April 2021, Thessaloniki, Greece.
- 5) 2<sup>nd</sup> International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

#### Scientific Committee

- 6) 1<sup>st</sup> International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2019), Eugenides Foundation, Athens, 8-11 May 2019.
- 7) 2<sup>nd</sup> International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

#### **CHAIRMAN-COORDINATOR OF SESSIONS IN CONFERENCES & WORKSHOPS**

- 1) 1<sup>st</sup> International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO), Athens, Greece, 8-11 May 2019. Chairman in Session 3: Input Data For Coastal Studies.
- 2) 2<sup>nd</sup> International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO-2023), KEDEA AUTH, Thessaloniki, 23-27 May 2023.

#### **PRIZES – AWARDS – DISTINCTIONS – SCHOLARSHIPS**

- 2007 Thomaideio prize of distinction for a peer-reviewed conference paper authorship and presentation by M.Sc. students of NTUA
- 2016-'17 IKY-SIEMENS excellence scholarship for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY)

#### **ANALYTIC MEMO OF PROFESSIONAL EXPERIENCE ON RESEARCH PROJECTS**

- 2006 Research Assistant NTUA; Saraya Aqaba Lagoon Project: [Wave Penetration and Hydrodynamics Modeling in a Coastal Lagoon near Aqaba \(2006\)](#), Program: NTUA subcontracted by LACECO Ltd., Contract duration: 01/08/2006–30/11/2006, Div. of Water Resources, Hydraulic and Maritime Works (DWRHMW), School of Civil Engineering, NTUA, Athens, Greece.
- Tasks:* a) high resolution numerical simulations with Boussinesq-type, parabolic mild-slope equations and 3<sup>rd</sup> generation nearshore spectral wave models from the MIKE21 software suite for the wave penetration in an artificial lagoon; b) preliminary investigation of the attributes and design of submerged breakwaters and low-crested sub-aerial structures based on numerical modeling of wave-structure interaction; c) record and use of state-of-the-art design formulae for wave transmission over and around low-crested structures and submerged breakwaters; d) implementation of the best fit formulae; e) validation of numerical modeling approaches against experimentally produced formulae; f) authorship of conference papers and technical reports; g) oral presentations in conferences.

- 2008 Research Assistant AUTH; Project: [Reformation of Under-graduate Studies Program of the AUTH Dept. of Civil Engineering](#) (2008), Education and Initial Professional Constitution Operational Program II (EIPCOP II – ΕΠΕΑΕΚ II), Activity 2.2.2.: Integration of Investigation and Reformation of AUTH Studies Program, Action Category 2.2.2.a: Reformation of Under-graduate Studies Program, Contract duration: 01/01/2008–30/06/2008, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.  
*Tasks:* a) design of educational software based on state-of-the-art analytical relations and approaches on various problems of Coastal Engineering and Oceanography: regular and irregular wave characteristics, monochromatic and irregular wave breaking, solitary waves, spectral wave forecasting, seiches inside water basins, porous bottom frictional wave damping, depth of closure, longshore sediment transport, shoreline evolution along groins, storm surge (wind setup), wastewater diffuser/outfall near- and far-field dilution, diffuser parts design (diameters and Darcy coefficient for risers), analytic approximations for linear wave length; b) conference paper and technical reports authorship; c) oral presentations in conferences; d) invited lectures in graduate/post-graduate courses.
- 2008 Research Assistant AUTH, *Prevention and management of sea originated risks to the coastal zone (CORI). Extreme sea level variability for Eastern Mediterranean* (2006-2008), Πρόγραμμα: INTERREG III-B – ARCHIMED (Measure 3.3), Contract duration: 04/11/2008 – 30/01/2008, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.  
*Task:* post-processing of numerical modelling output.
- 2010 Research Assistant AUTH, Project: *Investigation of the coupling between the Aegean and Black Seas through the Turkish Strait System (SESAME)* (2007-2010), IP-036949, Program: Research DG, Commission of European Communities, Contract duration: 02/12/2010-31/01/2011, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.  
*Task:* post-processing of numerical modelling output.
- 2012 Research Assistant AUTH, Project: [Enhancement of research, education and cultural activities of Civil Engineering Dept. in AUTH \(2012\)](#), Education and Initial Professional Constitution Operational Program II (EIPCOP II – ΕΠΕΑΕΚ II), Contract duration: 01/10/2012-31/10/2012, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.  
*Task:* teaching assistance in academic courses.
- 2012-'15 Research Associate AUTH; Project: [Estimating the effects of Climate Change on SEA level and WAve climate of the Greek seas, coastal Vulnerability and Safety of coastal and marine structures \(CCSEAWVS\)](#) (2012-2015), THALES Research Program – Reinforcement of the interdisciplinary and/or inter-institutional research and innovation with the possibility of attracting high standard researchers from abroad through the implementation of basic and applied excellence research, Contract duration: 01/10/2012–28/02/2013, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

*Tasks:* a) numerical modelling (climatic simulations) of storm surges with AUTH's MeCSSM/GreCSSM numerical models based on Fortran codes; b) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; c) validation of storm surge numerical models against field data; d) review and analysis of state-of-the-art literature on storm surge models and climate change; e) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima; f) authorship of journal articles, conference papers, and technical reports; f) oral presentations in conferences.

2013-'15 Research Associate AUTH, Project: [Pilot System for the Development and Broadcast of Wave and Maritime Circulation Daily Forecast in the Thermaikos Gulf \(Greece\), for Public Use and Extreme Conditions \(WaveForUs\)](#) (2013-2015), COOPERATION 2011 Research Program – Partnerships of Production and Research Institutions in Focused Research and Technology Sectors, Contract duration: 20/03/2013-31/10/2015, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

*Tasks:* a) numerical modelling (operational forecast simulations) of storm surges with AUTH's storm surge, wave-induced set-up and astronomical tides models based on Fortran codes; b) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; c) validation of storm tide numerical models against field data; d) review and analysis of state-of-the-art literature on operational forecast models and platforms concerning wave, storm surge and hydrodynamic circulation models; e) result production (maps, graphs, alert signals) of sea level; f) authorship of conference papers and technical reports; g) oral presentations in conferences.

2015 Research Associate AUTH/NTUA; Project: [Hellenic Academic E-books and Accessories](#) (2014-2015), KALLIPOS Research Project, HEAL-Link, Education and Lifelong Learning Program, National Network of research and Technology, Contract duration: 05/05/2015-30/09/2015, NTUA, Athens, Greece.

*Tasks:* a) co-authorship of state-of-the-art textbook on Coastal Engineering and Oceanography and Maritime Environmental Engineering, i.e. general description of the coastal zone, sea level variations, tides, storm surges, tsunamis, steric effects, climate change impacts on the sea level, coastal flooding, inundation risk assessment and vulnerability indexes, design of submarine outfalls, diffusers, effluent dilution calculations; b) design of interactive coastal/ocean engineering software and calculation tools for graduate students; c) authorship of practical examples, evaluation criteria and exercises.

2016-'17 Post-doctoral Research Fellow AUTH, Project: [Investigation of the impacts of intense storm surge events on the coastal zones of the Mediterranean Sea](#), IKY-SIEMENS program of excellence scholarships for post-doctoral research in Greece by the State Scholarships Foundation (SSF/IKY) academic year 2016-17, Fellowship duration: 15/09/2016-15/07/2017.

*Tasks:* a) numerical modelling (climatic and operational forecast simulations) of storm surges, wave-induced set-up, surf beat, wave run-up, and astronomical tides with numerical models based on Fortran and VBA codes; b) tide-gauge sea level measurements post-processing with filters and

signal-processing techniques for their use as model validation data; c) validation of storm surge numerical models against field data; d) review and analysis of state-of-the-art literature on storm surge models, climate change, wave-induced sea level on the shoreline, and extreme value analysis; e) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima, extremes of storm surges, wave characteristics, total sea level on the coast, and coastal flooding; f) authorship of journal articles, conference papers, and technical reports.

2017-'18 Research Associate AUTH; Project: [Monitoring of Water Quality in the Maritime Environment of the Thermaikos Gulf, Thessaloniki, Greece](#), EYATH S.A., Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

Tasks: a) open-sea field measurements (via cruises) of physical parameters, chlorophyll-a, dissolved oxygen and pH with CTD instrument; b) post-processing and analysis of measured vertical distributions of conductivity, salinity, temperature, density, chlorophyll-a, dissolved oxygen and pH in the sea water column; c) authorship of journal article, conference paper, and technical report.

2018-'20 Research Associate AUTH; Project: [Integrated Quantitative Assessment of Climate Change Impacts on Mediterranean Coastal Water Resources and Socio-Economic Vulnerability Mapping \(MEDAQCLIM\)](#) (2017-2019), ERANETMED Research Program – ERANETMED\_WATER-13-112, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

Tasks: a) selection of climate scenarios and assessment of RCM projections (unified set of IPCC's climate change scenarios; b) performing statistical analysis on projections from RCM models gathered from databases published by national Euro-Mediterranean climate centres; c) estimating sea level changes from regional sea circulation numerical modelling; d) numerical modelling (climatic simulations) of meteorological residuals of the sea-surface dynamics (storm surges) with AUTH's MeCSSM numerical model based on Fortran codes; e) numerical modelling on estuarine hydrodynamics (providing salinity, temperature, current and sea level fields under climate and water consumption (by agriculture, hydropower energy) scenarios; f) tide-gauge sea level measurements post-processing with filters and signal-processing techniques for their use as model validation data; g) validation of storm surge numerical results against field data; h) result production (maps, graphs, trends, evolution, statistical indices) of inter- and intra-annual storm surge maxima; i) identification and quantitative estimation of coastal inundation; j) contributing in the design of an integrated coastal zone management (ICZM) system/approach; k) authorship of journal articles, conference papers, and technical reports; l) oral presentations in conferences.

2018-'22 Research Associate AUTH; Project: [Decision Support Tool For Navigation Management In Ports \(ACCU-WAVES\)](#); Research Program: Joint Action State Aid for Research, Technological Development & Innovation, Research – Create – Innovate, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020; DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.

Tasks: a) Evaluation, management and preparation of input data in numerical models, b) Transformation and adaptation of values and forms of atmospheric and marine parameters based on specific computational protocols for model cooperation and coupling, c) choice of port case



studies and definition of bathymetric and geometric characteristics of ports and harbors, d) definition of boundary and initial conditions for the computational simulation grids and of geometries of solid and reflective boundaries, e) development of hydrodynamic models based on Fortran codes for the simulation of sea-states (wave propagation and hydrodynamic circulation), f) measurements of maritime processes and post-processing of *in situ* field observations: instrument set-up (wave buoys, tide and sea level gauges) in crucial positions inside and in the vicinity of ports together with use and processing of field data from Hydrographic Services and satellite data from AVISO+ and Copernicus databases, g) validation (parameterization, adjustment, calibration, evaluation) of hydrodynamic models, h) coupled implementation of numerical simulations, interconnection of Fortran codes in real-time situations for 50 ports worldwide, i) post-processing of results and design of graphs and maps, j) determination of control parameters, special technical issues of simulations, practical issues of navigation in ports, management of mooring sites and logistics of each port, k) development of automated forecast model/platform and time-programming for the operational function of sea-state forecasts.

2020 Research Associate of Scientia Maris co.; Project: *COAST-UP*; Research Program: Joint Action State Aid for Research, Technological Development & Innovation, Research – Create – Innovate, Competitiveness, Entrepreneurship, and Innovation, ESPA 2014-2020.

*Tasks:* a) Upgrade, evaluation, and validation of Maris-BSQ model, b) collection of experimental data from international literature, c) creation of grid domains of experimental setups, d) setup of boundary conditions and wave scenarios for numerical modelling, e) setup of conditions for wave runup.

2020-'22 Research Associate AUTH; Project: [Promoting Technology Innovation in Monitoring & Modelling for Assessment of Fish Stock and Non-Fishing Resources \(TIMMOD\)](#), Program: ENI CBC Black Sea Basin 2014-2020.

*Tasks:* a) Promotion of best practices and analysis of innovative technologies and methods of monitoring environmental parameters for the assessment of fishing and non-fishing resources in the Black Sea; b) Development of three-dimensional hydrodynamic circulation simulations. Forecast of marine conditions. Application of advanced numerical tools within ecological modeling; c) Study of cross-border coordination mechanisms; d) Development of innovation strategy plan for the technological upgrade of environmental monitoring and modeling; e) Participation in local workshops and workshops with monitoring and decision-making bodies. Communication and dissemination activities; f) Writing deliverables and articles in scientific journals and conference proceedings. Presentations at meetings and scientific conferences.

2021-'23 Research Associate AUTH; Project: [Mapping of pressures and estimation of external and internal loads of nutrients and organic material for the protection and management of the marine waters in Thermaikos Gulf \(Thermaikos-MAPATG\)](#). Program: Support to the Management Authority of the Protected Areas of Thermaikos Gulf for the implementation of interventions for the management, protection and promotion of the natural environment and biodiversity within its area of responsibility.

*Tasks:* a) field measurements and sampling in the open sea (via sailing campaigns) and in rivers/estuaries for physicochemical parameters, chlorophyll-a, dissolved oxygen and pH with CTD

instruments, b) open-sea *in situ* measurements (via sailing campaigns) for hydrodynamic circulation (coastal currents) with ADCP instruments, c) post-processing and analysis of measured vertical distributions of conductivity, salinity, temperature, density, chlorophyll-a, dissolved oxygen and pH, d) authoring deliverables, technical reports, and articles for journals and conferences, e) 3-D numerical model implementation of hydrodynamic circulation in the Thermaikos Gulf, f) participation in local workshops, dissemination and results' diffusion activities.

2024-'26 Research Associate AUTH; Project: Flash flood risk prevention & resilience in Mediterranean area through an Integrated Multistakeholder Governance Model, gathering prevention, adaptation, and mitigation solutions (**LocAll4Flood**), led by Balmes University Foundation. Program: INTERREG Euro-MED, Call: 2<sup>nd</sup> Call for Proposals Thematic Projects.

*Tasks:* a) Prevention activities: Develop and Adapt reliable and specific forecasting tools and early warning systems at catchment scale, b) Adaptation activities: Define the components of an integrated governance model & assess the social awareness and risk perception revolving around flash flood events, c) Mitigation activities: Adapt, finetune and categorize existing Nature Based Solutions (NBS) tool box to mitigate the negative effects of flash flood events, d) 1.5 Boxing the prevention, adaptation & mitigation solutions into the LOCAL4FLOOD integrated multistakeholder governance model IMGM - Training Program, e) Pilots setup & description, f) Prevention activities: Test forecasting tools & early warning systems, g) Adaptation activities: Implement participatory actions to raise the social awareness and improve the response capacity to flash flood events, h) Mitigation activities: Lay the foundations for implementation of mitigating NBS through a participatory-based approach, i) Monitoring activities: Assess the efficiency of the LocAll4Flood IMGM to reduce flash flood risks also through citizen science activities, j) Multi-stakeholders engagement, k) Communication & Dissemination: online communication tools

### **Professional Experience in Research Projects**

Total	Number of Research Projects:	<b>15</b>	
	Number of Years:	<b>18</b>	<b>2006-2023</b>
	Sum of employment months by contract:	<b>190</b>	<b>man-months</b>
	Sum of employment respective years:	<b>15.83</b>	<b>man-years</b>
Post-Doctoral	Number of Research Projects:	<b>8</b>	
	Number of Years:	<b>9</b>	<b>2015-2023</b>
	Sum of employment months by contract:	<b>157</b>	<b>man-months</b>
	Sum of employment respective years:	<b>13.08</b>	<b>man-years</b>

### **FURTHER EXPERIENCE ON SUBMISSION OF RESEARCH PROPOSALS**

2015 Program: **HORIZON 2020 – DRS 2015**; Project: **SIRoCCo** - Societal Resilient Management of Flood Risk along the EU Coastline under Climate Change.

- 2016 Program: **INTERREG Balkan-Med 2016** – Cooperation between Greece, Bulgaria and Cyprus; Project: **FACTS** - Future Adaptation to Climate change in Touristic Shores: integrated management strategies against erosion due to waves and storm surges.  
Program: Education and Lifelong Learning **EDBM**, Project: **EDBM20** Academic Teaching Experience for Young Scientists and Doctors (2016-2017).
- 2017 Program: Education and Lifelong Learning **EDBM34** Research support with emphasis on young researchers, Project: **CCFLOOD-MedBlack** Investigation of the effects of historical climate changes on coastal flooding due to wave and meteorological tides in the coupled Mediterranean – Black Sea system.  
Program: **ELIDEK** Projects for the Enhancement of Post-Doctoral Research, Project: **UPRIPORT-CC** Upgrading port and harbour structures in a changing climate under a nonstationary risk-based framework.  
Program: **ELIDEK** Projects for the Enhancement of Post-Doctoral Research, Project: **BEACHPROTECT** Monitoring and projection of the wave dissipation and beach response due to hard coastal defences and seagrass meadows.  
Program: Joint Action State Aid for Research, Technological Development & Innovation, **Research – Create – Innovate**, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020, Project: **DeSTACCI** Decision Support Tool for Adaptation Measures of Sewer Networks in Coastal Cities to Climate Change Impacts.
- 2018 Program: **ELIDEK** Projects for the Enhancement of Academic Research, Project: **CORALMED** Computational Tool for Coastal Flooding in the Mediterranean Sea, Project: **RUPS** Risk-based Upgrading for Harbor Protection Structures due to Climate Change.
- 2019 Program: Education and Lifelong Learning **EDBM34** Research support with emphasis on young researchers, Project: Advanced high-resolution mathematical model for simulating coastal flooding due to storm surges in the Mediterranean Sea under climate change conditions.  
Program: Joint Action State Aid for Research, Technological Development & Innovation, **Research – Create – Innovate**, Competitiveness, Entrepreneurship and Innovation, ESPA 2014-2020, Project: **KAVEIROS** Observatory of water resources quality using terrestrial, marine and aerial observations for tourism development, environmental protection and health of coastal cities' inhabitants.  
Program: Cooperation of **EYATH – AUTH**, Project: Optimization of Thermaic Gulf quality monitoring system - Thermaic Gulf water quality map.
- 2020 Program: **HORIZON 2020**, Call name: Information and Communication Technologies, Call ID: H2020-ICT-2018-20, Advancing photonics technologies and application driven photonics components and the innovation ecosystem, ID: ICT-37-2020; Project: **PHONIO** Community-driven sensing on environmental risks through photonics.  
Program: **ELIDEK** Clusters of Research, Innovation and Diffusion, Project: **SeaFlood-Alert** Innovative I/T Application for Public Early Warning in case of Coastal Flooding.

Program: **ELIDEK** Support of Faculty Members, Project: **PhyCoTherm** Physical Connectivity Processes in Thermaikos Gulf.

2021 Program: **European Research Council (ERC) Consolidator Grant**, Call name: **ERC CG 2021**; Project: **MicroMARE** Tracking the fate of Microplastics in the MARine Environment, led by Dr. Y. Androulidakis (AUPH).

2022 Program: **The Research Promotion Foundation Programmes for Research, Technological Development and Innovation “RESTART 2016 – 2020”**, Call name: **CO-DEVELOP**; Project: **Amphitrite** A Digital Twin for the Cyprus region marine ecosystem.

Program: **ELIDEK** Greece 2.0 Basic Research Financing Action (Horizontal support of all Sciences), Call: **Sub-action II Funding Projects in Leading-Edge Sectors**; Project: **MAREGEN** Detection and Recovery of Marine Plastic Litter in Coastal Zones for Regeneration, Photocatalytic Enrichment and Reuse in the Marine Environment, led by Dr. G. Kenanakis (FORTH).

2023 Program: **Black Sea Cross-Border Cooperation (BSB CBC)**, Call name: **INTERREG NEXT BSB 2021-2027**; Project: **TIMMOD-2** Enhancing innovation capacities and uptake of advanced technologies towards sustainable fisheries and eco-friendly aquaculture in Black Sea. Project: **NATURE-BS** Promoting Large-scale Nature-based Solutions for reducing climate driven risks and improving environment in Black Sea coastal zone.

### **PROFESSIONAL EXPERIENCE ON ACADEMIC TEACHING & TUTORING**

2007-'13 Teaching Assistant in Academic Courses Program: Participation in the Program of Tutoring and Teaching Assistance of AUPH's Civil Engineering Dept. for (i) 7<sup>th</sup> semester's main course 'Coastal and Port Engineering' and (ii) 9<sup>th</sup> semester's optional specialty course 'Coastal Protection Works' Tasks: a) formulation and supervising assistance of semester projects, exercises, essays, and educational software; b) lecturing assistance by oral presentations.

2009-'20 Diploma Theses Supervising Assistant:

- 1) Preari, M.G. (2009). *Investigation of Thermal Pollution in Coastal Waters: The Case of Aliveri Bay, (Evoia, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUPH, Thessaloniki, Greece. (*in Greek*)
- 2) Oikonomidis, K. (2009). *Coastal Protection Embankments & Revetments*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUPH, Thessaloniki, Greece. (*in Greek*)
- 3) Betziou, M. and Belba, K. (2009). *Wave Climate Estimation and Measurements – Application in the Strymonas River Estuary (Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUPH, Thessaloniki, Greece. (*in Greek*)
- 4) Alavantas, N. (2011). *Wave Attenuation of Fishing Shelters: The Case of Makri Harbor (Alexandroupolis, Thrace, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUPH, Thessaloniki, Greece. (*in Greek*)

- 5) Vrachas, P. (2011). *Investigation of Wave Run-up and Consequent Erosion of a Vertical Coastal Slope in the coastal area of N. Michaniona (Thessaloniki, Greece)*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*)
- 6) Charisi, A. (2013). *Investigation of Storm Surges in the Aegean Sea*, LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*)
- 7) Diamanti, N. (2014). *Storm Surges in the Greek Seas under Climate Change*, LMEMW, DHEE, Post-graduate Program of Studies on Environmental Protection and Sustainable Growth, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*)
- 8) Sotiriadis, Y. (2020). *Study of Intense Storm Surges in the Mediterranean Coastal Zone for the 1979-2015 period*. LMEMW, DHEE, Dept. of Civil Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece. (*in Greek*)

2018 University Fellow Scholar in the framework of the Program “Development of Human Resources, Education and Lifelong Learning” and Project “Acquisition of academic teaching experience in new PhD scientists” (EDBM 45) for AUTH Civil Engineering Dept.’s 8<sup>th</sup> semester’s optional specialty course “Mathematical Modeling of Water Quality in Aquatic Ecosystems”. Tasks: a) lecturing by weekly oral presentations; b) formulation of student notes, semester project themes, educational software, and exercises; c) weekly supervising of essays and projects and tutoring students.

2023 University Fellow Scholar in the framework of the Program “Development of Human Resources, Education and Lifelong Learning” and Project “Acquisition of academic teaching experience in new PhD scientists” (EDBM 191) for AUTH Civil Engineering Dept.’s 8<sup>th</sup> semester’s optional specialty courses “Numerical Modelling for Hydraulic Engineering” and “Hydraulics of Groundwater Flows”. Tasks: a) lecturing by weekly oral presentations; b) formulation of student notes, semester project themes, educational software, and exercises; c) weekly supervising of essays and projects and tutoring students.

### **Professional Experience in Academic Teaching**

Number of Academic Teaching Activities		<b>3</b>	<b>projects</b>
By Contract Duration	Total years of teaching experience:	<b>9</b>	<b>years</b>
			<b>2007-2013, 2018, 2023</b>
	Total months of teaching experience:	<b>53.75</b>	<b>man-months</b>
	Total years of teaching experience:	<b>4.5</b>	<b>man-years</b>
By Semesters	Total semesters of teaching experience:	<b>14</b>	<b>semesters</b>
	Total academic years of teaching experience:	<b>7</b>	<b>years</b>
Full-course teaching	Total courses taught:	<b>3</b>	<b>courses</b>
	Total semesters of full-course teaching:	<b>2</b>	<b>semesters</b>
	Total academic years of full-course teaching:	<b>1</b>	<b>years</b>
	Total months of full-course teaching:	<b>14.5</b>	<b>man-months</b>

Total years of full-course teaching: **1.21 man-years**

### **PROFESSIONAL EXPERIENCE ON CONSULTANCY & TECHNICAL STUDIES/REPORTS**

- Public Civil Works
- 1a) **Makris, C.V. (2010a)**. *Forecasting and Analysis of the Wave Field and the Hydrodynamic Characteristics in the Submarine Sewage Outfall Region concerning the Water Treatment Plant of Skyros Island (Aegean Sea, Greece)*, in account of EVERGOS Ltd., Xanthi, Greece. (*in Greek*)
- 1b) **Makris, C.V. (2010b)**. *Sanitary Inspection of Polluting and Bacteriological Loads Dilution in the Submarine Sewage Outfall Region concerning the Water Treatment Plant of Skyros Island (Aegean Sea, Greece)*, in account of EVERGOS Ltd., Xanthi, Greece. (*in Greek*)
- 2) **Makris, C.V. (2012)**. *Coastal and Harbor Works Investigation for the Study of Environmental Enhancement, Protection and Construction of Accommodation Infrastructure, in the Area of ETAD Property at the Caiaphas Lake Hot Springs*, as part of Methodology and Technical Report, in account of HYDROMENT Engineering Consultants, Athens, Greece. (*in Greek*)
- 3) **Makris, C.V. (2020)**. *Environmental Baseline Report (EBR) and Environmental Action Plan (EAP) for the Block 10 – Kyparissiakos Gulf Lease Area*, Subsections of EBR referring to the morphology of coastal zone and bathymetry, geological and tectonic features, and marine hydrography and oceanography, in account of KartECO Consultants Environmental Engineers.
- 4) **Makris, C.V. (2020)**. *Scenarios of Model Runs for a Coastal Study in ELLINIKO area (Attica, Greece) Extreme Cases and Design Values for Waves, MSL, Storm Surge, Tides*. In account of Scientia Maris Co.
- Private Civil Works
- 5) Various technical reports for Legislative Technical Rearrangement concerning Inhabitable Spaces based on the Greek Law N.3843/2010. (*in Greek*)

### **RESEARCH INTERESTS**

- Coastal Engineering, Dynamics, and Modelling
- Ocean Engineering, Dynamics, and Modelling
- Physical Oceanography
- Operational Oceanography
- Maritime Hydrodynamics
- Water Wave Dynamics
- Wave Breaking
- Surf Zone Dynamics
- Storm Surges
- Climate Change
- Coastal Flooding

- Coherent Turbulent Structures
- Numerical Modelling
- Computational Fluid Dynamics (CFD)
- Smoothed Particle Hydrodynamics (SPH)
- Large Eddy Simulation (LES)
- Hydrodynamic Modelling and Simulations
- Modeling of Water Waves, Turbulence, and Storm Surges
- Oceanographic Forecast Systems Development
- Sea Level (Tide-gauge) Measurements Processing
- Oceanographic Measurements (with CTD)
- Port Engineering and Design of Harbor Works
- Environmental Engineering
- Design of Coastal Zone Protection Works
- Mild-type Protection Methods for the Coastal Zone
- Design of Submerged Breakwaters
- Sanitary Inspection of Coastal Areas
- Sea Water Quality Modelling
- Sea Water Monitoring
- Design of Sewage Discharge Systems in the Maritime Environment
- Design of Submarine Outfall Pipelines and Diffuser Systems
- Academic Software Development for Engineers and Scientists

### **REFERENCE CONTACTS**

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- 1) Yannis N. Krestenitis, Professor Emeritus of Coastal Oceanography and Engineering, Dept. of Civil Engineering, AUTH, Head of the Thessaloniki Water Supply & Sewerage Co. S.A. (EYATH S.A.); e-mail: [ynkrest@civil.auth.gr](mailto:ynkrest@civil.auth.gr); tel: +30 2310 995654  
*Doctoral/Diploma thesis supervisor; Research project coordinator; Teaching Professor; Paper/Book and Technical Report co-author*
- 2) Constantine D. Memos, Professor Emeritus of Coastal Engineering and Harbor Works, School of Civil Engineering, NTUA; e-mail: [memos@hydro.ntua.gr](mailto:memos@hydro.ntua.gr); tel: +30 210 7722851  
*Doctoral/MSc thesis supervisor; Research project coordinator; Teaching Professor; Paper and Technical Report co-author*
- 3) Theophanis V. Karambas, Professor of Coastal Engineering, Dept. of Civil Engineering, AUTH; e-mail: [karambas@civil.auth.gr](mailto:karambas@civil.auth.gr); tel: +30 2310 995805  
*Doctoral thesis advisor/examiner; Research project coordinator; Paper and Technical report co-author*
- 4) Konstantia Tolika, Associate Professor of Climatology, Department of Meteorology and Climatology, AUTH; e-mail: [diatol@geo.auth.gr](mailto:diatol@geo.auth.gr); tel: +30 2310 998404  
*Research project colleague; Paper and Technical Report co-author*

### **USEFUL LINKS**

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Personal webpage <https://people.auth.gr/cmakris/>

LinkedIn	<a href="https://www.linkedin.com/in/christos-makris-04596120">https://www.linkedin.com/in/christos-makris-04596120</a>
Google Scholar	<a href="https://scholar.google.gr/citations?user=3aJseoYAAAAJ">https://scholar.google.gr/citations?user=3aJseoYAAAAJ</a>
ResearchGate	<a href="https://www.researchgate.net/profile/Christos_Makris4">https://www.researchgate.net/profile/Christos_Makris4</a>
Academia.edu	<a href="https://auth.academia.edu/MakrisChristos">https://auth.academia.edu/MakrisChristos</a>
ORCID	<a href="http://orcid.org/0000-0001-6438-2659">http://orcid.org/0000-0001-6438-2659</a>
Mendeley	<a href="https://www.mendeley.com/profiles/christos-makris2/">https://www.mendeley.com/profiles/christos-makris2/</a>
Web of Science	<a href="https://www.webofscience.com/wos/author/record/Q-9574-2016">https://www.webofscience.com/wos/author/record/Q-9574-2016</a>
Scopus	<a href="https://www.scopus.com/authid/detail.uri?origin=resultslist&amp;authorId=27167653200">https://www.scopus.com/authid/detail.uri?origin=resultslist&amp;authorId=27167653200</a>
Research Group	<a href="http://coastal.web.auth.gr/index.htm">http://coastal.web.auth.gr/index.htm</a>