Attached List of Hetero-Citations

for the Curriculum Vitae of Dr Christos V. Makris

HETERO-CITATIONS PER PUBLICATION* (Total: 674)

**the code numbers of the publications correspond to their numbering in the Curriculum Vitae of Dr. Christos V. Makris*

A.1.1.

1) Ahmed, T. Cucco, A. Quattrocchi, G. Creedon, L. Anton, I. Bendoni, M. Taddei, S. Brandini, C. Gharbia, S. (2025). Assessing basin scale modelling for projecting storm surge extremes under climate change scenarios in northwest Ireland. *Ocean Modelling*, 102660. https://doi.org/10.1016/j.ocemod.2025.102660
2) Belivermis, M., Camuffo, D., Caiola, N., Ferrari, C., Mhammdi, N., Romero, E., Wolff, C., 2024: Drivers and their Interactions. In: Climate and Environmental Coastal Risks in the Mediterranean. [Djoundourian, S., Lionello, P., Llasat, M.C., Guiot, J., Cramer, W., Driouech, F., Gattacceca, J.C., Marini, K. (eds.)]. *MedECC Reports*. MedECC Secretariat, Marseille, France, pp. 71-130, doi:10.5281/zenodo.15096232
3) Manara E. (2025). *Process of defining the foreshore, beach, and the old foreshore: evaluation of individual stages with emphasis on the tools available to public sector engineers*. MSc Thesis, Quality Management and Technology, HOU. https://apothesis.eap.gr/archive/item/119
4) Cisse, C.O.T. (2025). Satellite and Statistical Approach for the Characterization of Coastal Storms Causing Damage on the Dakar Coast, Capital of Senegal (West Africa). *Coasts*, MDPI, 5, 24. https://doi.org/10.3390/ coasts5030024
5) Monaco S. (2025). Risk Communication in Coastal Cities: The Case of Naples, Italy. *Land*. 14(6):1288. https://doi.org/10.3390/land14061288
6) Del-Rosal-Salido, J., Bermúdez, M., Ortega-Sánchez, M. et al. (2025). A composite index framework for compound flood risk assessment. *Commun Earth Environ.* 6, 342. https://doi.org/10.1038/s43247-025-02331-z
7) Laksono, A.T. (2025). *Hybrid method assesses coastal morphology using satellite images and fluid dynamics*. Ph.D. Dissertation, University of Pécs, Doctoral School of Earth Sciences. https://pea.lib.pte.hu/bitstream/handle/pea/45652/anjar-tri-laksono-phd-2025-en.pdf?sequence=1
8) Dinu I., Gràcia V., García-León M., Lin-Ye J., Stănică A. and Sánchez-Arcilla A. (2025). Feasibility of artificial reefs as coastal protection measures at the Danube Delta coast, Romania. *Front. Environ. Sci.* 13:1568364. doi:10.3389/fenvs.2025.1568364
9) Justine Y.E.D., Seenath A. (2024). Vegetative nature-based solutions for coastal flood risk management: Benefits, challenges, and uncertainties. *Ocean & Coastal Management*, Vol 261, 107520. https://doi.org/10.1016/j.ocecoaman.2024.107520

10) Romero-Martín, R., Sanuy, M. & Jiménez, J.A. (2024). Unveiling the role of storm surges as a driver of flooding on the western Mediterranean: a case study of the Ebro Delta. *Natural Hazards*. https://doi.org/10.1007/s11069-024-06984-5

11) Romero Martín, R. (2024). *Confronting coastal hazards: contributions to climate change adaptation strategies and planning in the Mediterranean*. PhD Thesis, Universitat Politècnica de Catalunya. 10.5821/dissertation-2117-454091

12) Agulles, M., Marcos, M., Amores A. et al. (2024). Storm surge modelling along European coastlines: The effect of the spatio-temporal resolution of the atmospheric forcing. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2024.102432

13) Denamiel, C., Tojčić, I., and Pranić, P. (2025). A new vision of the Adriatic Dense Water future under extreme warming. *Ocean Sci.*, 21, 37–62. https://doi.org/10.5194/os-21-37-2025

14) Abouelnasr, M. M., & Elselmy, A. S. (2024). Medicanes and its Metrological Effects in the Mediterranean Sea: Case Study of Medicane IANOS. *International Maritime Transport and Logistic Journal*, 13, 57-72. https://marlog.aast.edu/archive/2024/files/marlog13/MARLOG13_paper_71.pdf

15) Moulin, A., Mentaschi, L., Clementi, E., Verri, G., & Mercogliano, P. (2024). Projections of the Adriatic wave conditions under climate changes. *Frontiers in Climate*, 6, 1409237. https://doi.org/10.3389/fclim.2024.1409237

16) Tokat, E. and Beşiktepe, Ş.T. (2024). Characteristics of Sea Surface Temperatures, Marine Heatwaves, and Marine Cold Spells Across Interconnected Seas: Southwest Black Sea, Marmara Sea, and North Aegean Sea. Available at SSRN: http://dx.doi.org/10.2139/ssrn.4869597

17) Nastos, P., & Saaroni, H. (2024). Living in Mediterranean cities in the context of climate change: A review. *International Journal of Climatology*, 1–22. https://doi.org/10.1002/joc.8546

18) Ghanavati, M., Young, I., Kirezci, E., & Liu, J. (2024). The impact of long-term changes in ocean waves and storm surge on coastal shoreline change: A case study of Bass Strait and south-east Australia. *Natural Hazards and Earth System Sciences Discussions*, 1-24. https://nhess.copernicus.org/articles/24/2175/2024/nhess-24-2175-2024.html

19) Kostas, T. (2024). Energy upgrade of a school building. The case of the high school of Kali, Pella. MS Thesis, University Center of International Programmes of Studies, School of Science and Technology, International Hellenic University. https://repository.ihu.edu.gr/xmlui/handle/11544/30423

20) Igigabel, M., Yates, M., Vousdoukas, M., & Diab, Y. (2024). A systemic and comprehensive assessment of coastal hazard changes: method and application to France and its overseas territories. *Nat. Hazards Earth Syst. Sci.*, 24, 1951–1974. https://doi.org/10.5194/nhess-24-1951-2024

21) Escalera-Vázquez, L. H., Martínez-Servín, F., & Arceo-Carranza, D. (2024). Fish assemblage structure related to habitat heterogeneity in rocky reefs in the Mexican Pacific coast. *Neotropical Ichthyology*, 22(02), e230040. https://doi.org/10.1590/1982-0224-2023-0040

22) Batzakis, D.V., Karymbalis, E., & Tsanakas, K. (2024). Assessing coastal vulnerability to climate change-induced hazards in the Eastern Mediterranean: A comparative review of methodological approaches. *In book: Geographical Information Science, Case Studies in Earth and Environmental Monitoring*. doi:10.1016/B978-0-443-13605-4.00013-8

23) Janafza, S. (2024). *Risultati sull'impatto degli scenari attuali e futuri degli eventi naturali nel Comune di Sestri Levante* (Results on the impact of current and future scenarios of natural events in the municipality of Sestri Levante). MSc Thesis, University of Genoa. URL

24) Amarouche, K., Akpinar, A. (2024). Wind-Sea and Swell Climate in the Black and Azov Seas, Based on 42-Year Spectral Wave Hindcast. *Applied Ocean Research*, 151(1):104155 doi:10.1016/j.apor.2024.104155

25) Velegrakis, A.F. et al. (2024). Coastal Hazards and Related Impacts in Greece. In: Darques, R., Sidiropoulos, G., Kalabokidis, K. (eds) The Geography of Greece. World Regional Geography Book Series. Springer, Cham. https://doi.org/10.1007/978-3-031-29819-6_21

26) Baldoni A, Melito L, Marini F, Galassi G, Giacomin P, Filomena G, Barbizzi N, Lorenzoni C and Brocchini M (2024) Modeling coastal inundation for adaptation to climate change at local scale: the case of Marche Region (central Italy). *Front. Clim.* 6:1334625. doi:10.3389/fclim.2024.1334625

27) Houdard C. (2023). *Analyse de solutions pour limiter l'érosion externe du talus arrière d'une digue en terre soumise à la houle: une approche basée sur la théorie des copules et l'analyse de sensibilité globale*. PhD Thesis. Mécanique des fluides [physics.class-ph]. Université Gustave Eiffel, 2023. Français. URL

28) Falciano, A., Anzidei, M., Greco, M., Trivigno, M.L., Vecchio, A., Georgiadis, C., Patias, P., Crosetto, M., Navarro, J., Serpelloni, E. et al. (2023). The SAVEMEDCOASTS-2 webGIS: The Online Platform for Relative Sea Level Rise and Storm Surge Scenarios up to 2100 for the Mediterranean Coasts. *J. Mar. Sci. Eng.*, 11, 2071. https://doi.org/10.3390/jmse11112071

29) Santos-Echeandía J., Bernárdez P., Sánchez-Marín P. (2023). Trace metal level variation under strong wind conditions and sediment resuspension in the waters of a coastal lagoon highly impacted by mining activities. *Science of The Total Environment*, Vol. 905, December 2023, 167806. https://doi.org/10.1016/j.scitotenv.2023.167806

30) Ghanavati, M., Young, I., Kirezci, E. et al. (2023). An assessment of whether long-term global changes in waves and storm surges have impacted global coastlines. *Sci Rep* 13, 11549. doi:10.1038/s41598-023-38729-y

31) Monioudi IN, Velegrakis AF, Chatzistratis D, Vousdoukas MI, Savva C, Wang D, Bove G, Mentaschi L, Paprotny D, Morales-Nápoles O, Chatzipavlis AE, Hasiotis T and Manoutsoglou E (2023). Climate change - induced hazards on touristic island beaches: Cyprus, Eastern Mediterranean. *Front. Mar. Sci.* 10:1188896. doi:10.3389/fmars.2023.1188896

32) Malliouri DI, Moraitis V, Petrakis S, Vandarakis D, Hatiris G-A, Kapsimalis V. (2023). A Non-Stationary and Directional Probabilistic Analysis of Coastal Storms in the Greek Seas. *Water*, 15(13):2455. https://doi.org/10.3390/w15132455

33) Agulles Gámez, M., 2023. *Coastal hazards under climate change. The case of the Balearic Islands*. Doctoral Thesis, Universitat de les Illes Balears. URL

34) Elsen, P.R., Oakes, L.E., Cross, M.S., DeGemmis, A., Watson, J.E., Cooke, H.A., Darling, E.S., Jones, K.R., Kretser, H.E., Mendez, M. and Surya, G., 2023. Priorities for embedding ecological integrity in climate adaptation policy and practice. *One Earth*, 6(6), pp.632-644. https://doi.org/10.1016/j.oneear.2023.05.014

35) Mel RA, Lo Feudo T., Miceli M., Sinopoli S., Maiolo M. (2023). A coupled wave-hydrodynamical model to assess the effect of Mediterranean storms under climate change: the Calabaia case study. *Dynamics of Atmospheres and Oceans*, 101368. doi:10.1016/j.dynatmoce.2023.101368

36) Papasarafianou, S., Gkaifyllia, A., Iosifidi, A-E., Sahtouris, S., Wulf, N., Culibrk, A., Stamataki, M-D., Chatzivasileiou, T., Siarkos, I., Rouvenaz, C., et al. (2023). Vulnerability of Small Rivers Coastal Part

Due to Floods: The Case Study of Lesvos West—North Coast. *Environ. Sci. Proc.*, MDPI, 5. https://doi.org/10.3390/xxxxx

37) Lionello, P., Sannino, G. and Vilibic, I. (2023). Surface wave and sea surface dynamics in the Mediterranean. *Oceanography of the Mediterranean Sea, An Introductory Guide*. Book Chapter, Elsevier, pp. 161-207. doi:10.1016/B978-0-12-823692-5.00007-8

38) Sarkar, N., Rizzo, A., Vandelli, V., Soldati, M. (2022). A Literature Review of Climate-Related Coastal Risks in the Mediterranean, a Climate Change Hotspot. *Sustainability*, 14, 15994. doi:10.3390/su142315994

39) Ali, E., W. Cramer, J. Carnicer, E. Georgopoulou, N.J.M. Hilmi, G. Le Cozannet, and P. Lionello, 2022: Cross-Chapter, Paper 4: Mediterranean Region. *In: Climate Change 2022: Impacts, Adaptation and Vulnerability*. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 2233–2272. doi:10.1017/9781009325844.021

40) Šepić, J., Pasarić, M., Međugorac, I., Vilibić, I., Karlović, M., Mlinar, M. (2022). Climatology and process-oriented analysis of the Adriatic sea level extremes, *Progress in Oceanography*. doi:10.1016/j.pocean.2022.102908

41) Pepi Y., Streicher M., Ricci C., Franco L., Bellotti G., Hughes S., Troch P. (2022). The effect of variations in water level on wave overtopping discharge over a dike: An experimental model study, *Coastal Engineering*, 104199. doi:10.1016/j.coastaleng.2022.104199

42) Jardine A. (2022). *A Multidisciplinary Analysis of Coastal Storms in Western Britain, 1800-2020*. PhD thesis, University of York. https://etheses.whiterose.ac.uk/32453/

43) Saviano S, Biancardi AA, Uttieri M, Zambianchi E, Cusati LA, Pedroncini A, Contento G, Cianelli D. (2022). Sea Storm Analysis: Evaluation of Multiannual Wave Parameters Retrieved from HF Radar and Wave Model. *Remote Sensing*. 14(7):1696. doi:org/10.3390/rs14071696

44) Mel, R.A., Lo Feudo, T., Miceli, M., Sinopoli, S. and Maiolo, M. (2022). A coupled modelling system to assess the effect of Mediterranean storms under climate change. *Natural Hazards and Earth System Sciences Discussions*, pp.1-31. doi:10.5194/nhess-2022-67

45) Toomey, T., Amores, A., Marcos, M., Orfila, A. and Romero, R. (2022). Coastal hazards of tropical‐like cyclones over the Mediterranean Sea. *Journal of Geophysical Research: Oceans*, p.e2021JC017964. doi:10.1029/2021JC017964

46) Menicagli, V., De Battisti, D., Balestri, E., Federigi, I., Maltagliati, F., Verani, M., Castelli, A., Carducci, A. and Lardicci, C. (2022). Impact of storms and proximity to entry points on marine litter and wrack accumulation along Mediterranean beaches: Management implications. *Science of The Total Environment*, p.153914. doi:10.1016/j.scitotenv.2022.153914

47) Gündoğdu S., Ayat B., Aydoğan B., Çevik C., Karaca S. (2022). Hydrometeorological assessments of the transport of microplastic pellets in the Eastern Mediterranean, *Science of The Total Environment*, 153676, doi:org/10.1016/j.scitotenv.2022.153676

48) Pérez Gómez, B., Vilibić, I., Šepić, J., Međugorac, I., Ličer, M., Testut, L., Fraboul, C., Marcos, M., Abdellaoui, H., Álvarez Fanjul, E., Barbalić, D., Casas, B., Castaño-Tierno, A., Čupić, S., Drago, A., Fraile, M. Á., Galliano, D. A., Gauci, A., Gloginja, B., Martín Guijarro, V., Jeromel, M., Larrad Revuelto,

M., Lazar, A., Keskin, I. H., Medvedev, I., Menassri, A., Meslem, M. A., Mihanović, H., Morucci, S., Niculescu, D., Quijano de Benito, J. M., Pascual, J., Palazov, A., Picone, M., Raicich, F., Said, M., Salat, J., Sezen, E., Simav, M., Sylaios, G., Tel, E., Tintoré, J., Zaimi, K., and Zodiatis, G. (2022). Coastal Sea Level Monitoring in the Mediterranean and Black Seas, *Ocean Science*, 18, 997–1053. doi:10.5194/os-2021-125

49) Amarouche K., Akpınar A., and Semedo A. (2022). Wave storm events in the Western Mediterranean Sea over four decades. *Ocean Modelling*, 101933. doi:10.1016/j.ocemod.2021.101933

50) Foukas, S. (2022). *Impacts and methods of prevention and containment of extreme natural disasters. Mediterranean cyclone named "IANOS". Impacts on the island of Kefalonia and the development of methods of prevention and containment of the recurrence of similar disasters.* MSc Thesis, Department of Civil Engineering Management. https://apothesis.eap.gr/archive/item/170447

51) Goyetche T. (2021). *Seawater Intrusion, transition zone dynamics and reactive mixing: Example of Argentona coastal alluvial aquifer*. Ph.D. Thesis, Hydrogeology Group (GHS), Institute of Environmental Assessment and Water Research (IDAEA, CSIC), Department of Civil and Environmental Engineering (DECA). http://hdl.handle.net/10803/674441

52) Flaounas, E., Davolio, S., Raveh-Rubin, S., Pantillon, F., Miglietta, M.M., Gaertner, M.A., Hatzaki, M., Homar, V., Khodayar, S., Korres, G. and Kotroni, V. (2021). Mediterranean cyclones: Current knowledge and open questions on dynamics, prediction, climatology and impacts. *Weather and Climate Dynamics Discussions*, pp.1-68. doi:10.5194/wcd-3-173-2022

53) Agulles M., Jordà G. and Lionello P. (2021). Flooding of Sandy Beaches in a Changing Climate. The Case of the Balearic Islands (NW Mediterranean). *Front. Mar. Sci.* 8:760725. doi:10.3389/fmars.2021.760725

54) Cappelletto, M., Santoleri, R., Evangelista, L., Galgani, F., Garcés, E., Giorgetti, A., Fava, F., Herut, B., Hilmi, K., Kholeif, S., Lorito, S. et al. (2021). The Mediterranean Sea we want. *Ocean and Coastal Research*, 69. doi:10.1590/2675-2824069.21019mc

55) Dickson LC, Katselidis KA, Eizaguirre C, Schofield G. (2021). Incorporating Geographical Scale and Multiple Environmental Factors to Delineate the Breeding Distribution of Sea Turtles. *Drones*, MDPI, 5(4):142. doi:10.3390/drones5040142

56) Fortelli A, Fedele A, De Natale G, Matano F, Sacchi M, Troise C, Somma R. (2021). Analysis of Sea Storm Events in the Mediterranean Sea: The Case Study of 28 December 2020 Sea Storm in the Gulf of Naples, Italy. *Applied Sciences*. MDPI, 11(23):11460. doi:10.3390/app112311460

57) Amarouche K., Akpınar A., Soran M. B., Myslenkov S., Majidi A.G., Kankala M., Arkhipkin V. (2021). Spatial calibration of an unstructured SWAN model forced with CFSR and ERA5 winds for the Black and Azov Seas. *Applied Ocean Research*, Elsevier, Vol. 117, 102962. doi:10.1016/j.apor.2021.102962

58) Zampazas G., Karymbalis E., Chalkias C. (2021). Assessment of the sensitivity of Zakynthos Island (Ionian Sea, Western Greece) to climate change-induced coastal hazards. *Zeitschrift für Geomorphologie* doi:10.1127/zfg/2021/0730

59) Hochman, A., Marra, F., Messori, G., Pinto, J.G., Raveh-Rubin, S., Yosef, Y. and Zittis, G. (2021). ESD Reviews: Extreme Weather and Societal Impacts in the Eastern Mediterranean. *Earth System Dynamics Discussions*, pp.1-53. doi:/10.5194/esd-2021-55

60) Lionello, P., Barriopedro, D., Ferrarin, C., Nicholls, R.J., Orlic, M., Raicich, F., Reale, M., Umgiesser, G., Vousdoukas, M. and Zanchettin, D. (2020). Extreme floods of Venice: characteristics, dynamics, past

and future evolution. *Natural Hazards and Earth System Sciences*, 21, pp. 2705–2731. doi:10.5194/nhess-21-2705-2021

61) Mel R. A. (2021). Exploring the partial use of the Mo.S.E. system as effective adaptation to rising flood frequency of Venice, *Nat. Hazards Earth Syst. Sci.*, 21, 3629–3644, doi:10.5194/nhess-21-3629-2021.

62) Pérez-Gómez B, García-León M, García-Valdecasas J, Clementi E, Mösso Aranda C, Pérez-Rubio S, Masina S, Coppini G, Molina-Sánchez R, Muñoz-Cubillo A, García Fletcher A, Sánchez González JF, Sánchez-Arcilla A and Álvarez Fanjul E (2021). Understanding Sea Level Processes During Western Mediterranean Storm Gloria. *Front. Mar. Sci.*, 8:647437. doi:10.3389/fmars.2021.647437

63) Spinosa A, Ziemba A, Saponieri A, Damiani L, El Serafy G. (2021). Remote Sensing-Based Automatic Detection of Shoreline Position: A Case Study in Apulia Region. *Journal of Marine Science and Engineering*, 9(6):575. doi:10.3390/jmse9060575

64) Sancho-García, A., Guillén, J., Gracia, V., Rodríguez-Gómez, A.C. and Rubio-Nicolás, B. (2021). The Use of News Information Published in Newspapers to Estimate the Impact of Coastal Storms at a Regional Scale. *Journal of Marine Science and Engineering*, *9*(5), p.497. doi:10.3390/jmse9050497

65) Lazarus, E.D. and Ziros, L.A. (2021). Yachts and marinas as hotspots of coastal risk. *Anthropocene Coasts*, *4*(1), pp.61-76. doi:10.1139/anc-2020-0012

66) Martzikos, N.T., Prinos, P.E., Memos, C.D. and Tsoukala, V.K. (2020). Statistical analysis of Mediterranean coastal storms. *Oceanologia*. doi:10.1016/j.oceano.2020.11.001

67) Alcoverro, T., Marco-Méndez, C., Minguito-Frutos, M., Boada, J., Prado, P., Sanmartí, N., Muñoz-Ramos Trayter, G., Pagès, J.F., García, M., Pérez, M.M. and Seglar Arañó, X. (2020). Efectes del temporal Gloria en els ecosistemes de Posidonia oceanica al llarg de la costa catalana. URL

68) Delle Rose M, Fidelibus C, Martano P, Orlanducci L. (2020). Storm-Induced Boulder Displacements: Inferences from Field Surveys and Hydrodynamic Equations. *Geosciences,* 10(9):374. https://doi.org/10.3390/geosciences10090374

69) Bowyer P., Haensel S., Smalley E., Velegrakis A., Dagan M. Wyrowski L. (2020). *Climate Change Impacts and Adaptation for Transport Networks and Nodes*. Technical Report, ECE/TRANS/283. United Nations Economic Commission for Europe (UNECE). United Nations Publications, NY, USA. ISBN 978-92-1-117237-9; eISBN 978-92-1-004779-1

70) Denamiel, C., Pranić, P., Quentin, F., Mihanović, H. and Vilibić, I., 2020. Pseudo-global warming projections of extreme wave storms in complex coastal regions: the case of the Adriatic Sea. *Climate Dynamics*, pp.1-27. doi:10.1007/s00382-020-05397-x

71) Oprandi, A., Mucerino, L., De Leo, F., Bianchi, C.N., Morri, C., Azzola, A., Benelli, F., Besio, G., Ferrari, M. and Montefalcone, M., 2020. Effects of a severe storm on seagrass meadows. *Science of The Total Environment*, p.141373. doi:10.1016/j.scitotenv.2020.141373

72) Zheng, Y. and Sun, H., 2020. An Integrated Approach for the Simulation Modeling and Risk Assessment of Coastal Flooding. *Water*, *12*(8), p.2076. doi:10.3390/w12082076

73) Amarouche, K., Akpınar, A., Çakmak, R.E., Houma, F. and Bachari, N.E.I. (2020). Assessment of storm events along the Algiers coast and their potential impacts. *Ocean Engineering*, *210*, p.107432. doi:10.1016/j.oceaneng.2020.107432

74) Papathanasiou, V., Kariofillidou, G., Malea, P. and Orfanidis, S. (2020). Effects of air exposure on desiccation and photosynthetic performance of Cymodocea nodosa with and without epiphytes and Ulva

rigida in comparison, under laboratory conditions. *Marine Environmental Research*, p.104948. doi:10.1016/j.marenvres.2020.104948

75) Delle Rose, M., Fidelibus, C. and Miglietta, M.M. (2020). Cambiamento climatico e protezione delle coste. *Ithaca: Viaggio nella Scienza*, 2020 (15), pp.47-56. URL

76) Fernández-Montblanc, T., Vousdoukas, M.I., Mentaschi, L. and Ciavola, P. (2020). A Pan-European high resolution storm surge hindcast. *Environment International*, 135, p.105367. doi:10.1016/j.envint.2019.105367

77) Wesselman, D.A. (2020). *Washover inundation and barrier island accretion*. Doctoral Dissertation, Utrecht University. ISBN:978-90-6266-573-0

78) Faccini, F., Girani, A., Luino, F., Marchese, A., Paliaga, G., & Turconi, L. (2019). Monitoraggio del territorio e dell'ambiente per la mitigazione del rischio idro-meteorologico: il pilot 'Parco di Portofino'nell'ambito del progetto H2020 Reconect. In *Atti del convegno ASITA 2019* (pp. 391-398). ITA. https://unige.iris.cineca.it/handle/11567/1028349

79) Zapata, Yoan Torres (2019). *CBR-Pronic Sistema Basado En Casos Para El Pronóstico De Inundaciones Costeras Por Penetraciones Del Mar Y Su Contribución Al Mizc*. MSC Thesis, Santiago de Cuba. Universidad De Oriente, Facultad de Construcciones, Centro de Estudios Multidisciplinarios de Zonas Costeras. URL

80) Turconi L., Faccini F., Marchese A., Paliaga G., Casazza M., Vojinovic Z. and Luino F. (2019). Implementation of Nature-Based Solutions for Hydro-Meteorological Risk Reduction in Small Mediterranean Catchments: The Case of Portofino Natural Regional Park, Italy. *Sustainability*, 12, 1240. doi:10.3390/su12031240

81) Vilibić, I., Zemunik, P., Šepić, J., Dunić, N., Marzouk, O., Mihanović, H., Denamiel, C., Precali, R. and Djakovac, T. (2019). Present climate trends and variability in thermohaline properties of the northern Adriatic shelf. *Ocean Sci. Discuss.*, Vol. 15, pp. 1351–1362. doi:10.5194/os-15-1351-2019

82) Boyes, S. and Elliott, M. (2019). European Challenges to Coastal Management from Storm Surges: Problem-Structuring Framework and Actors Implicated in Responses. In: *Facing hydrometeorological extremes: a governance issue*, Ch. 22, p.341. doi:10.1002/9781119383567.ch22

83) Lionello, P., Conte, D. and Reale, M. (2019). The effect of cyclones crossing the Mediterranean region on sea level anomalies on the Mediterranean Sea coast. *Natural Hazards and Earth System Sciences*, 19(7), pp.1541-1564. doi:10.5194/nhess-19-1541-2019

84) Giannakidou, C., Diakoulaki, D. and Memos, C.D. (2019). Implementing a Flood Vulnerability Index in urban coastal areas with industrial activity. *Natural Hazards*, pp.1-22. doi:org/10.1007/s11069-019-03629-w

85) Toker, E., Sharvit, J., Fischer, M., Melzer, Y. and Potchter, O. (2019). Archaeological, geomorphological and cartographical evidence of the sea level rise in the southern Levantine Basin in the 19th and 20th centuries. *Quaternary International*. doi:org/10.1016/j.quaint.2019.05.015

86) Barbaro, G., Bombino, G., Foti, G., Borrello, M.M. and Puntorieri, P. (2019). Shoreline evolution near river mouth: Case study of Petrace River (Calabria, Italy). *Regional Studies in Marine Science*, p.100619. doi:10.1016/j.rsma.2019.100619

87) Vraziotis Argyris (2019). *Estimation of coastline regression at the beaches of Western Crete,* Degree Thesis, University of the Aegean, School of Environment, Department of Marine Sciences. http://hdl.handle.net/11610/19362

88) 池内寛明. - Ikeuchi H. (2019). *大陸河川沿岸デルタ域における複合洪水氾濫モデリングに関する研究* (Doctoral dissertation, 東京大学) - Development of a modelling framework for compound flooding in coastal deltas of the world's continental rivers, PhD Thesis. URL

89) Kypraiou, E. (2018). *Effect of climate change on the wave conditions and the wind induced circulation in the Gulf of Corinth*. MSc Thesis, School of Civil Engineering, University of Patras, Patras, Greece. URL

90) Axon, S. (2018). The human geographies of coastal sustainability transitions. In *Towards Coastal Resilience and Sustainability* (pp. 276-291). Routledge. Taylor and Francis Group. ISBN: 978-0-815-35863-3

91) Gaeta, M.G., Bonaldo, D., Samaras, A.G., Carniel, S. and Archetti, R. (2018). Coupled wave-2D hydrodynamics modeling at the Reno river mouth (Italy) under climate change scenarios. *Water*, 10(10), p.1380. doi:10.3390/w10101380

92) Archetti, R. & Gaeta M.G. (2018). Design of Multipurpose Coastal Protection Measures at the Reno River Mouth (Italy). *Proc. of 28th International Ocean and Polar Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE), June 10-15 2018, Sapporo, Japan. URL

93) Tragaki, A., Gallousi, C., & Karymbalis, E. (2018). Coastal Hazard Vulnerability Assessment Based on Geomorphic, Oceanographic and Demographic Parameters: The Case of the Peloponnese (Southern Greece). *Land*, 7(2), 1-16. doi:10.3390/land7020056

94) Tzoraki, O., Monioudi, I.N., Velegrakis, A.F., Moutafis, N., Pavlogeorgatos, G. & Kitsiou, D. (2018). Resilience of Touristic Island Beaches Under Sea Level Rise: A Methodological Framework. *Coastal Management*, 1-25. doi:10.1080/08920753.2018.1426376

95) Feng, X., Li, M., Yin, B., Yang, D., & Yang, H. (2018). Study of storm surge trends in typhoon-prone coastal areas based on observations and surge-wave coupled simulations. *International Journal of Applied Earth Observation and Geoinformation.* doi:10.1016/j.jag.2018.01.006

96) Kamesh, R., Bala, S., Rafiza, S., Nadia, M., Zaki, M., Marini, M., Amri, M., Nurul M., Huang Y.F., Anis, K., Norlen M., Norbizura A., Rohaida I., Thahirahtul Z. and Yazid K. (2018). Projection of Riverine Flooding on Government Healthcare Facilities in Peninsular Malaysia Due To Climate Change. *Geoinformatics and Geostatics: An Overview*, 6(4), pp. 29-35. doi:10.4172/2327-4581.1000192

97) Karymbalis E., Dandoulaki M., Skordili S. (2017). Sea Level Rise in Greece: From Knowledge towards Risk Awareness of Main Actors. *The Thirteenth International MEDCOAST Congress on Coastal and Marine Sciences, Engineering, Management and Conservation (MEDCOAST 17).* Vol. 1. URL

98) Wesselman, D., Winter, R., Engelstad, A., McCall, R., Dongeren, A., Hoekstra, P., Oost, A. and Vegt, M. (2017). The effect of tides and storms on the sediment transport across a Dutch barrier island. *Earth Surface Processes and Landforms*. doi:10.1002/esp.4235

99) Tsanakas, K., Poulos, S.E. and Monioudi, I. (2017). Sea level rise impact on the beach zone of Katerini region, NW Aegean Sea. *Proc. of the 15th International Conference on Environmental Science and Technology (CEST)*, Rhodes, Greece, 31 August - 2 September 2017. URL

100) Jin, Y.D., Zhao, X. and Ma, L.N. (2017). Storm surge characteristics and extreme parameters in the Chengshantou sea area. *IOP Conference Series: Earth and Environmental Science*, Vol. 82. doi:10.1088/1755-1315/82/1/012052

101) Vilibić, I., Šepić, J., Pasarić, M., and Orlić, M. (2017). The Adriatic Sea: A long-Standing Laboratory for Sea Level Studies. *Pure and Applied Geophysics*, Part of Sea Level 2017, pp. 1-47. doi:10.1007/s00024-017-1625-8

102) Ikeuchi, H., Hirabayashi, Y., Yamazaki, D., Muis, S., Ward, P.J., Winsemius, H.C., ... & Kanae, S. (2017). Compound simulation of fluvial floods and storm surges in a global coupled river-coast flood model: Model development and its application to 2007 Cyclone Sidr in Bangladesh. *Journal of Advances in Modeling Earth Systems*, Vol. 9. doi:10.1002/2017MS000943

103) Kvočka, D. (2017). *Modelling elevations, inundation extent and hazard risk for extreme flood events*. PhD Thesis, Cardiff University, Cardiff, Wales, UK. http://orca.cf.ac.uk/101761/

104) Satta, A., Puddu, M., Venturini, S., & Giupponi, C. (2017). Assessment of coastal risks to climate change related impacts at the regional scale: The case of the Mediterranean region. *International Journal of Disaster Risk Reduction*. Vol. 24, pp. 284-296. doi:10.1016/j.ijdrr.2017.06.018

105) Monioudi, I.N., Velegrakis, A.F., Chatzipavlis, A.E., Rigos, A., Karambas, T., Vousdoukas, M.I. et al. (2017). Assessment of island beach erosion due to sea level rise: the case of the Aegean archipelago (Eastern Mediterranean). *Natural Hazards and Earth System Sciences*, 17(3), 449. doi:10.5194/nhess-17-449-2017

106) Vousdoukas, M.I., Mentaschi, L., Voukouvalas, E., Verlaan, M. and Feyen, L. (2017). Extreme sea levels on the rise along Europe's coasts. *Earth's Future*. doi:10.1002/2016EF000505

107) Pelte, T. et al. (2017). *Impacts du Changement Climatique dans le Domaine de l'eau*, Bassin de Corse, Eau & Connaissance, Technical Report. URL

108) Tapazidou P. (2017). *Estimation of the shoreline retreat on the coasts of Tunisia*. University of the Aegean, School of Environmental Studies, Department of Marine Sciences, BSc Thesis (Supervisor Professor: Velegrakis A.). (*in Greek*) URL

109) Katsouris M. (2017). *Estimation of the shoreline retreat on the coasts of East Crete*. University of the Aegean, School of Environmental Studies, Department of Marine Sciences, BSc Thesis (Supervisor Professor: Velegrakis A.). (*in Greek*) URL

110) Özkaya F.C. (2017). *Denizel süngerlerden fungusların izolasyonu ve elde edilen metebolitlerinin biyoaktivitelerinin taranması*. PhD Thesis (*in Turkish*) URL

111) Vousdoukas, M.I., Voukouvalas, E., Annunziato, A., Giardino, A. and Feyen, L. (2016). Projections of extreme storm surge levels along Europe. *Climate Dynamics*, Vol. 47, Issue 9, 3171-3190. doi:10.1007/s00382-016-3019-5

112) Kvočka, D., Falconer, R.A. and Bray, M. (2016). Flood hazard assessment for extreme flood events. *Natural Hazards*, Vol. 84, Issue 3, 1569–1599. doi:10.1007/s11069-016-2501-z

113) Galiatsatou, P. and Prinos, P. (2016). Joint probability analysis of extreme wave heights and storm surges in the Aegean Sea in a changing climate. In: *E3S Web of Conferences* (Vol. 7, p. 02002). EDP Sciences. doi:10.1051/e3sconf/20160702002

114) Traut, M., Hanson, S. and Walsh, C. (2016). *Report from the lookout - Understanding climate change impacts on shipping*. Technical Report, Tyndall Centre for Climate Change Research, University of Manchester, University of Southampton. URL

115) Mayo, A.H. and Arenal, I.M. (2015). Tendencias climáticas de las inundaciones costeras en el litoral Gibara-Playa Guardalavaca, provincia Holguín, Cuba. *Revista de Climatología*, 15. URL

A.1.2.

116) Xie, J., Tajima, Y., & Dai, Z. (2025). Comprehensive comparison of NS-SPH and SWE-SPH models for hydrodynamic simulations. *Journal of Hydraulic Research*, 63(6), 651–666. https://doi.org/10.1080/00221686.2025.2578783

117) Cukrov, A., Boras, I., & Bašić, J. (2025). A Review of the Application of Smoothed-Particle Hydrodynamics in the Computation of Boiling Flows. *Transactions of FAMENA*, 49(3), 123-144. https://doi.org/10.21278/TOF.493079625

118) Scandura P., Altomare C., Cáceres I., Viccione G., van der A D. (2025). SPH numerical simulations of wave breaking over a barred beach. *Coastal Engineering Proceedings*, 38, Proceedings of 38th International Conference on Coastal Engineering (ICCE 2024), 8 – 14 September 2024, Rome, Italy. https://doi.org/10.9753/icce.v38.currents.34

119) Calvo, L., De Padova, D., Onorato, M. et al. (2025). SPH modelling of wave attenuation by an array of submerged resonators and vorticity generation mechanism. *Environ Fluid Mech*, 25, 21. https://doi.org/10.1007/s10652-025-10034-4

120) De Padova, D., Ben Meftah, M. & Mossa, M. (2025) Theoretical and numerical investigation of wave attenuation on vegetated seabeds. *Earth Surface Processes and Landforms*, 50(5), e70054. https://doi.org/10.1002/esp.70054

121) Mossa, M., De Padova, D. (2025). Interaction between waves and vegetation. *Sci Rep* 15, 6157. https://doi.org/10.1038/s41598-025-89627-4

122) Mossa M, De Padova D, Onorato M. (2025). Damping of solitons by coastal vegetation. *Journal of Fluid Mechanics*. 1002:A45. doi:10.1017/jfm.2024.1185

123) Tiwari, A. K., & Wang, J. X. (2024). Wave Impact Pressure Assessment on Geosynthetic-Reinforced Earthen Containment Dikes in Coastal Louisiana. Conference Geo-Structures 2024, pp. 389-398. https://doi.org/10.1061/9780784485842.037

124) Yong J.C. (2024). Numerical Analysis of Nonlinear Shoaling and Its Impact on Suspended Sediment Dynamics across Surf and Swash Zones: A Navier–Stokes Approach Enhanced by Lagrangian Dynamic Smagorinsky Modeling with SPH. *Environmental Fluid Mechanics* PREPRINT (V.1) available at Research Square https://doi.org/10.21203/rs.3.rs-5287827/v1

125) Yang, Y., English, A., Rogers, B. D., Stansby, P. K., Stagonas, D., Buldakov, E., & Draycott, S. (2024). Numerical modelling of a vertical cylinder with dynamic response in steep and breaking waves using smoothed particle hydrodynamics. *Journal of Fluids and Structures*, 125, 104049. doi:10.1016/j.jfluidstructs.2023.104049

126) Venegas-Aravena P, Cordaro EG. (2024). The Multiscale Principle in Nature (*Principium luxuriæ*): Linking Multiscale Thermodynamics to Living and Non-Living Complex Systems. *Fractal and Fractional*. 8(1):35. https://doi.org/10.3390/fractalfract8010035

127) Yang, Y. (2023). *Modelling Extreme Wave-Current Conditions and their Interaction with Offshore Renewable Energy Systems*. Doctoral dissertation, The University of Manchester. URL

128) Cukrov A, Landek D, Sato Y, Boras I, Ničeno B. (2023). Water Entry of a Heated Axisymmetric Vertical Cylinder. *Energies*, 16(24):7926. https://doi.org/10.3390/en16247926

129) Cukrov, A., Landek, D., Sato, Y., Boras, I., Ničeno, B. (2023). Water Entry: A Classical Naval Hydrodynamics Problem Enhanced with the Heat and Mass Transfer, and Applied in an Immersion Quenching Simulation. *Preprints*, MDPI, 2023101452. doi:10.20944/preprints202310.1452.v1

130) Dai, Z., Li, X., Lan, B. (2023). Three-Dimensional Modeling of Tsunami Waves Triggered by Submarine Landslides Based on the Smoothed Particle Hydrodynamics Method. *J. Mar. Sci. Eng.*, 11, 2015. https://doi.org/10.3390/jmse11102015

131) Altomare, C., Scandura, P., Cáceres, I. and Viccione, G., 2023. Large-scale wave breaking over a barred beach: SPH numerical simulation and comparison with experiments. *Coastal Engineering*, p.104362. doi:10.1016/j.coastaleng.2023.104362

132) Cukrov, A., Sato, Y., Boras, I. and Ničeno, B., 2023. Film Boiling Around a Finite Size Cylindrical Specimen – A Transient Conjugate Heat Transfer Approach. *Appl. Sci.*, 13(16), 9144. doi:10.3390/app13169144

133) Venegas-Aravena P. and Cordaro E.G. (2023). The unification of the multiscale foundations of nature: Linking multiscale thermodynamics to living and non-living complex systems. *Preprints*. doi:10.13140/RG.2.2.23018.90562

134) Cukrov, A., 2023. *Numerical simulation of metal materials quenching by applying Eulerian two-fluid model*. Doctoral Dissertation, University of Zagreb. Faculty of Mechanical Engineering and Naval Architecture. URL

135) Lowe, R. J., Altomare, C., Buckley, M. L., da Silva, R. F., Hansen, J. E., Rijnsdorp, D. P., ... & Crespo, A. J. C. (2022). Smoothed Particle Hydrodynamics simulations of reef surf zone processes driven by plunging irregular waves. *Ocean Modelling*, 171, 101945. https://doi.org/10.1016/j.ocemod.2022.101945

136) Miranda E.M. (2022). *Simulação de Escoamento Turbulento em um Motor de Foguete com o Modelo de Grandes Escalas (LES)*. Thesis Trabalho de Conclusão de Curso (Bacharelado em Engenharia Aeroespacial), Universidade de Brasília, Brasília. https://bdm.unb.br/handle/10483/31173

137) Yu T., Meng X., Li T., Guo Q., Li Y. (2022). Numerical simulation of interaction between wave-driven currents and revetment on coral reefs. *Ocean Engineering*, Vol. 254, 111346. doi:10.1016/j.oceaneng.2022.111346

138) Li, Y., Larsen, B., & Fuhrman, D. (2022). Reynolds stress turbulence modelling of surf zone breaking waves. *Journal of Fluid Mechanics*, 937, A7. doi:10.1017/jfm.2022.92

139) De Padova D., Ben Meftah M., Mossa M., Sibilla S. (2022). A Multi-phase SPH simulation of Hydraulic Jump oscillations and local scouring processes downstream of bed sills. *Advances in Water Resources*, 104097. doi:10.1016/j.advwatres.2021.104097

140) Luo M., Khayyer A., Lin P. (2021). Particle methods in ocean and coastal engineering. *Applied Ocean Research*, Elsevier, Vol. 14, 102734. doi:10.1016/j.apor.2021.102734

141) De Padova D, Calvo L, Carbone PM, Maraglino D, Mossa M. (2021). Comparison between the Lagrangian and Eulerian Approach for Simulating Regular and Solitary Waves Propagation, Breaking and Run-Up. *Applied Sciences*. 11(20):9421. doi:10.3390/app11209421

142) De Padova, D. and Mossa, M. (2021). Multi-phase simulation of infected respiratory cloud transmission in air. *AIP Advances*, *11*(3), p.035035. doi:10.1063/5.0047692

143) Ma Z., Yang Y., Zhai G., Bao J. and Teh H.-M. (2021). A study of the impact of plunging waves on the inverted L-shaped breakwater structure based on SPH method, *Ships and Offshore Structures*, doi:10.1080/17445302.2020.1835055

144) Power H.E. (2020). Breaking waves, *Part of Sandy Beach Morphodynamics*, Chapter 6, (Eds D.W.T. Jackson, A.D. Short), Elsevier, pp. 103-130, Part of ISBN 9780081029275, doi:10.1016/B978-0-08-102927-5.00006-0

145) Stringari C.E. (2020). *Data driven Investigations of Broken Wave Behaviour in the Surf and Swash Zones,* March 2020, PhD Thesis, University of Newcastle, Australia. URL

146) De Padova D. and Mossa M. (2020). Hydrodynamics of Regular Breaking Wave. In: *Geophysics and Ocean Waves Studies*, Intech Open, pp. 1-20. doi:10.5772/intechopen.94449

147) Barile S., De Padova D., Mossa M. and Sibilla S. (2020). Theoretical analysis and numerical simulations of turbulent jets in a wave environment. *Physics of Fluids*, 32, 035105 doi:10.1063/1.5141039

148) Rahardjo A., Trimulyono A. and Manik P. (2020). Analisis Numerik Long Duration Sloshing Single-Phase dan Two-Phase Pada Tangki Prismatik Menggunakan Metode Smoothed Particle Hydrodynamics (SPH). *Jurnal Teknik Perkapalan*, 9(1), 45-58. URL

149) 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

150) Deshpande P.S. (2020). *Interaction of High Aspect-Ratio Micro-Pillars with Wall Turbulence*. MSc Thesis, 518. URL

151) De Padova, D., Mossa, M. and Sibilla, S. (2020). Characteristics of nonbuoyant jets in a wave environment investigated numerically by SPH. *Environmental Fluid Mechanics*, pp.1-14. doi:10.1007/s10652-019-09712-x

152) Lowe, R.J., Buckley, M.L., Altomare, C., Rijnsdorp, D.P., Yao, Y., Suzuki, T. and Bricker, J. (2019). Numerical simulations of surf zone wave dynamics using Smoothed Particle Hydrodynamics. *Ocean Modelling*, p.101481. doi:10.1016/j.ocemod.2019.101481

153) De Padova D. Ben Meftah M. , De Serio F., Mossa M., and Ranieri G. (2019). Experimental and Numerical Investigation of an Irregular Wave. *International Short Course/Conference on Applied Coastal Research Engineering (SCACR)*, 9–11 September 2019, Bari, Italy. URL

154) De Padova, D., Mossa, M. and Sibilla, S. (2019). Numerical investigation of the behaviour of jets in a wave environment. *Journal of Hydraulic Research*, Taylor and Francis, doi:10.1080/00221686.2019.1647886

155) Trimulyono, A., Hashimoto, H. and Matsuda, A. (2019). Experimental Validation of Single- and Two-Phase Smoothed Particle Hydrodynamics on Sloshing in a Prismatic Tank. *Journal of Marine Science and Engineering, 7,* 247. doi:10.3390/jmse7080247

156) De Padova, D., Meftah, M.B., De Serio, F., Mossa, M. and Sibilla, S. (2019). Characteristics of breaking vorticity in spilling and plunging waves investigated numerically by SPH. *Environmental Fluid Mechanics*, pp.1-28. doi:org/10.1007/s10652-019-09699-5

157) Wei, Z., Edge, B.L., Dalrymple, R.A. and Hérault, A. (2019). Modeling of wave energy converters by GPUSPH and Project Chrono. *Ocean Engineering*, 183, pp.332-349. doi:10.1016/j.oceaneng.2019.04.029

158) Sarfaraz, M. and Pak, A. (2019). Weakly compressible SPH simulation of cnoidal waves with strong plunging breakers. *Ocean Dynamics*, pp.1-22. doi:10.1007/s10236-019-01266-2

159) Ahmad, N., Bihs, H., Chella, M.A., Kamath, A. and Arntsen, Ø.A. (2019). CFD Modeling of Arctic Coastal Erosion due to Breaking Waves. *International Journal of Offshore and Polar Engineering*, 29(01), pp.33-41. ID:19-29-1-033, Part of ISSN:1053-5381

160) Roselli, R.A.R., Vernengo, G., Brizzolara, S. and Guercio, R. (2019). SPH simulation of periodic wave breaking in the surf zone - A detailed fluid dynamic validation. *Ocean Engineering*, 176: 20-30. doi:10.1016/j.oceaneng.2019.02.013

161) Wei, Z. and Dalrymple, R.A. (2018). Surf Zone Wave Heating by Energy Dissipation of Breaking Waves. *Coastal Engineering Proceedings*, 1(36), p.2. doi:10.9753/icce.v36.papers.2

162) Larsen, B.E. and Fuhrman, D.R. (2018). On the over-production of turbulence beneath surface waves in Reynolds-averaged Navier–Stokes models. *Journal of Fluid Mechanics*, 853, pp.419-460. doi:10.1017/jfm.2018.577

163) Gotoh, H. and Khayyer, A. (2018). On the state-of-the-art of particle methods for coastal and ocean engineering. *Coastal Engineering Journal*, 1-25. doi:10.1080/21664250.2018.1436243

164) Yang, X. (2017). Study on slamming pressure calculation formula of plunging breaking wave on sloping sea dike. *International Journal of Naval Architecture and Ocean Engineering*. doi:10.1016/j.ijnaoe.2016.11.008

165) Ahmad, N., Bihs, H., Chella, M.A., Arntsen, Ø.A. and Aggarwal, A. (2017). Numerical Modelling of Arctic Coastal Erosion Due to Breaking Waves Impact Using REEF3D. *Proc. of 27th International Ocean and Polar Engineering Conference*, International Society of Offshore and Polar Engineers (ISOPE). ISBN:978-1-880653-97-5

166) Klonaris G. (Κλωνάρης Γ.) (2016). *Μορφοδυναμική ακτής με ύφαλους κυματοθραύστες - Morphodynamics in a beach with submerged breakwaters*. PhD Thesis, NTUA, School of Civil Engineering. URL

167) Ρεπούσης Ε.Ε.Γ. (2016). *Διερεύνηση Υδροδυναμικού Πεδίου Σε Ύφαλους Διαπερατούς Κυματοθραύστες.* ΜΔΕ Διπλωματική Εργασία, ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.5268 URL

A.1.3.

168) Moraitis, V., Malliouri, D.I., Vandarakis, D. et al. (2026). Seagrass shields: evaluating the role of Posidonia oceanica meadows in protecting the Greek coasts. *Environ Earth Sci* 85, 18. https://doi.org/10.1007/s12665-025-12618-1

169) Rossi S, Keimeris D, Papachristou C, Tsanakas K, Faka A, Batzakis D-V, Soldati M, Karymbalis E. (2025). Preliminary Assessment of Long-Term Sea-Level Rise-Induced Inundation in the Deltaic System of the Northern Coast of the Amvrakikos Gulf (Western Greece). *Journal of Marine Science and Engineering*. 13(11):2114. https://doi.org/10.3390/jmse13112114

170) Memos CD, Roupas IP, Mylonas A. (2025). Methodological Overview of Hydrodynamic Loading on Seabed Structures in the South-East Mediterranean. *Journal of Marine Science and Engineering*, 13(11):2057. https://doi.org/10.3390/jmse13112057

171) Rusu L. (2025). Climate change impact on the sea state conditions in the Mediterranean Sea under RCP and SSP emission scenarios, *Renewable Energy*, Vol. 243, 122616, https://doi.org/10.1016/j.renene.2025.122616

172) Gohari A., Akpınar A. (2025). Projected changes in wind speed and wind energy resources over the Persian Gulf based on bias corrected CMIP6 models. Dynamics of Atmospheres and Oceans, 101539, https://doi.org/10.1016/j.dynatmoce.2025.101539

173) Ortega Camacho, M. (2024). *Vientos regionales en la península ibérica: caracterización y proyecciones de cambio climático*. PhD Thesis. UNIVERS IDAD DE CASTILLA - LA MANCHA, Toledo. URL

174) Rusu, E. (2024). An Assessment of the Expected Dynamics of the Extreme Storms in the Mediterranean Sea. *Journal of Coastal Research*, *113*(sp1), 1006-1010. https://doi.org/10.2112/JCR-SI113-197.1

175) Gumuscu I., Sahin C., Yuksel Y., Guner H.A.A., and Islek F. (2024). Evaluation of Future Wind Climate over the Eastern Mediterranean Sea. *Regional Studies in Marine Science*. doi.org/10.1016/j.rsma.2024.103780

176) Tokat, Erdal and Beşiktepe, Şükrü Turan, Characteristics of Sea Surface Temperatures, Marine Heatwaves, and Marine Cold Spells Across Interconnected Seas: Southwest Black Sea, Marmara Sea, and North Aegean Sea. Available at SSRN: http://dx.doi.org/10.2139/ssrn.4869597

177) Rusu L. (2024). An analysis of the expected wave conditions in the mediterranean sea in the context of global warming. *Ocean Engineering*, Vol. 301, 117487. doi:10.1016/j.oceaneng.2024.117487

178) Rusu, L. (2024). An Analysis of the Environmental Matrix in the Adriatic Sea - Past and Future Projections. *Journal of Sustainable Development of Energy Water and Environment Systems*, 12(2), 1110480. doi:10.13044/j.sdewes.d11.0480

179) Paramana T., Karditsa A., Petrakis S., Milatou N., Megalofonou P., Dassenakis M., Poulos S. (2023). Ecosystem-Based Blue Growth: The Case of the Semi-Enclosed Embayment of the Inner NE Ionian Sea and Adjacent Gulfs. *Water*, 15(16):2892. https://doi.org/10.3390/w15162892

180) Lavidas G., De Leo F., Besio G. (2023). Assessing the integration of an oscillating water column at the planned Genoa breakwater. *Proceedings of the 2nd International Scientific Conference on Design and Management of Port Coastal and Offshore Works (DMPCO)*, 24-27 May 2023, Thessaloniki, Greece, vol. 1, pp. 145-149.

181) Malliouri DI, Moraitis V, Petrakis S, Vandarakis D, Hatiris G-A, Kapsimalis V. (2023). A Non-Stationary and Directional Probabilistic Analysis of Coastal Storms in the Greek Seas. *Water*, 15(13):2455. https://doi.org/10.3390/w15132455

182) Kyritsi M, Tsoureki A, Koukaras K, Kamidis N, Krey G, Michailidou S, Argiriou A. Seasonal Dynamics of Marine Bacterial Communities in Aquaculture Farms: The Case of the Northern Ionian Coastal Ecosystem (Mediterranean Sea). *Journal of Marine Science and Engineering*. 2023; 11(7):1332. https://doi.org/10.3390/jmse11071332

183) Kozyrakis, G.V., Spanoudaki, K. and Varouchakis, E.A., 2023. Long-term wave energy potential estimation in the Aegean and Ionian seas using dynamic downscaling and wave modelling techniques. *Applied Ocean Research*, 131, p.103446. doi:10.1016/j.apor.2022.103446

184) Islek F. and Yuksel Y. (2022). Evaluation of future wind power potential and their projected changes in the Black Sea and possible stable locations for wind farms. *Ocean Engineering*, 266(2). doi:10.1016/j.oceaneng.2022.112832

185) Ortega M., Sánchez E., Gutiérrez C., Molina M.O., López-Franca N. (2022). Regional winds over the Iberian Peninsula (Cierzo, Levante and Poniente) from high resolution COSMO-REA6 reanalysis. *International Journal of Climatology*, 1-18. doi:org/10.1002/joc.7860

186) Abu Zed A.A., Kansoh R.M., Iskander M.M., Elkholy M. (2022). Wind and Wave Climate Southeastern of the Mediterranean Sea Based on a High-resolution SWAN Model. *Dynamics of Atmospheres and Oceans*, Vol. 99, 101311. doi:10.1016/j.dynatmoce.2022.101311

187) Rusu E. (2022). Climate Change Effects and Marine Renewable Energy Important Topics Targeted by the Journal of Marine Science, Editorial of *Journal of Marine Science*, Vol. 4, Issue 1, doi:10.30564/jms.v4i1.4366

188) Dickson, L. (2022). *Managing Mobile Marine Wildlife at Site to Regional Scales: Elucidating Factors Driving Distributions and Aggregations*. PhD Thesis, Queen Mary University of London., UK. URL

189) Dickson LC, Katselidis KA, Eizaguirre C, Schofield G. (2021). Incorporating Geographical Scale and Multiple Environmental Factors to Delineate the Breeding Distribution of Sea Turtles. *Drones*, MDPI, 5(4):142. doi:10.3390/drones5040142

190) Rusu L. (2021). Marine Renewable Energy Extraction in the Context of the Climate Change.

191) Samaras AG, Karambas TV (2021). Modelling the Impact of Climate Change on Coastal Flooding: Implications for Coastal Structures Design. *Journal of Marine Science and Engineering*. MDPI, 9(9):1008. doi:10.3390/jmse9091008

192) Vandarakis D, Panagiotopoulos IP, Loukaidi V, Hatiris G-A, Drakopoulou P, Kikaki A, Gad F-K, Petrakis S, Malliouri DI, Chatzinaki M, Morfis I, Kanellopoulos TD, Kapsimalis V. (2021). Assessment of the Coastal Vulnerability to the Ongoing Sea Level Rise for the Exquisite Rhodes Island (SE Aegean Sea, Greece). *Water*, 13(16):2169. doi:10.3390/w13162169

193) Girleanu A., and Rusu E. (2021). On the possibilities of extracting marine renewable energy in the Romanian nearshore workshop. *DREAM Project - Dynamics of the REsources and technological Advance in harvesting Marine renewable energy* - PN-III-P4-ID-PCE-2020-0008, Galaţi, ROMANIA, 11 June 2021. URL

194) Burloiu M. and Rusu E. (2020). Pre-planning for Black Sea offshore wind farms: a wind speed dataset for three Romanian coastal locations. *Proceedings of the 5th International Conference of Maritime Technology and Engineering - MARTECH2020*, University of Lisbon, Portugal, November 2020. URL

195) Lavidas, G.K. and Kaldellis, J. (2020). Assessing Renewable Resources at the Saronikos Gulf for the Development of Multi-Generation Renewable Systems. *Sustainability*, 12, 9169. doi:10.3390/su12219169

196) Anton C., Gasparotti C., Rusu E. (2020). Multicriterial Analysis of the Romanian Coastal Zone Management. *Mechanical Testing and Diagnosis*, Galati, Vol. 10, Issue 3, pp. 10-15. ISSN:2247–9635

197) Ruiz A., Onea F., Rusu E. (2020). Study Concerning the Expected Dynamics of the Wind Energy Resources in the Iberian Nearshore. *Energies*, MDPI, 13, 4832. doi:10.3390/en13184832

198) Lavidas, G., De Leo, F. and Besio, G. (2020). Blue Growth Development in the Mediterranean Sea: Quantifying the Benefits of an Integrated Wave Energy Converter at Genoa Harbour. *Energies*, *13*(16), p.4201. doi:10.3390/en13164201

199) Rusu E. (2020). Renewable Energy in Marine Environment an Important Resource for Our Future. Invited Lecture. *Proceedings 8th Scientific Conference of Doctoral Schools, Perspectives and challenges in doctoral research*, CSSD-UDJG 2020, Galati, Romania, 18-19 June 2020. URL

200) Rusu E. (2019). A Comparison between the Past and Future Expected Wind Conditions in the European Coastal Environment of the Mediterranean Sea. *Proceedings of the 16th International Conference on Environmental Science and Technology (CEST2019)*, Rhodes, Greece, 4-7 September 2019. URL

201) Kalogeri C., Lekas T.I., Kallos G. (2019). Assessing the availability of seaplane operations in the Aegean Sea. *Aeronautics and Aerospace Open Access Journal*, 3(2), pp. 76-82. doi:10.15406/aaoaj.2019.03.00083

202) Lionello, P., Conte, D. and Reale, M. (2019). The effect of cyclones crossing the Mediterranean region on sea level anomalies on the Mediterranean Sea coast. *Natural Hazards and Earth System Sciences*, 19(7), pp.1541-1564. doi:10.5194/nhess-19-1541-2019

203) Anton, C., Gasparotti, C., Anton, I.A. and Rusu, E. (2019). Analysis of the Mamaia Bay shoreline retreat using hard and soft protection works. *Journal of Marine Science*, Vol. 1, Issue 1, pp. 7-17. doi:org/10.30564/jmsr.v1i1.490

204) Alina, C.A.C.G.I. and Rusu, A.E. (2019). Analysis of the Mamaia Bay shoreline Retreat with Hard and Soft Protection Works. *Journal of Marine Science*, Vol.1, Issue 1, pp. 8-18. doi:10.30564/jmsr.v1i1.490

205) Rusu, L. (2019). Evaluation of the near future wave energy resources in the Black Sea under two climate scenarios. *Renewable Energy*. doi:10.1016/j.renene.2019.04.092

206) Rusu, E. and Onea, F. (2019). An assessment of the wind and wave power potential in the island environment. *Energy*. Vol. 175, pp. 830-846. doi:10.1016/j.energy.2019.03.130

207) Rusu, E. (2019). A 30-year projection of the future wind energy resources in the coastal environment of the Black Sea. *Renewable Energy,* Vol. 139, pp. 228-234. doi:10.1016/j.renene.2019.02.082

208) Ganea, D., Mereuta, E. and Rusu, E. (2019). An Evaluation of the Wind and Wave Dynamics along the European Coasts. *Journal of Marine Science and Engineering*, 7(2), p.43. doi:10.3390/jmse7020043

209) Rousopoulou I. (2018). *Assessment of the impacts of climate change on the stability and functionality of coastal structures. Calculation of the reliability of structures in the present and future climate*. MSc Diploma Thesis. Hellenic Open University. https://apothesis.eap.gr/archive/item/80571

210) Tzatzaki, V. (2018). Adapting the legal framework of natural marine resources management to climate disruption: The case of Greece. *Arctic Review*, 9, pp.359-376. doi:10.23865/arctic.v9.1214

211) Rusu E., Diaconita A., and Raileanu A. (2018). An assessment of the wind power dynamics in the European coastal environment. *3rd International Conference on Advances on Clean Energy Research (ICACER 2018)*, MATEC Web of Conferences, 6-8 April 2018, Barcelona, Spain. URL

212) Gasparotti, C. and Rusu, E. (2018). An Overview on the Shipbuilding Market in Current Period and Forecast. *Proceedings of the 13th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES)*, Palermo, Italy, September 30 – October 4, 2018. URL

213) Rusu, L. (2018). The influence of climate change on the near future wave energy resources in the Black Sea Basin. *Proceedings of the 13th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES)*, Palermo, Italy, September 30 – October 4, 2018. URL

214) Rusu, E. (2018). An analysis of the storm dynamics in the black sea. *Ro. J. Techn. Sci. − Appl. Mechanics*, Vol. 63, No. 2, p. 131−146. URL

215) Anton, P.S.C., Rusu, E., & Anton, P.S.I. (2018). Approach to the Analysis and Evaluation of Strategic Intervention Options in the Romanian Coastal Zone taking into Account Economic, Social and Environmental Factors. *Proceedings of the 18th International Multidisciplinary Scientific GeoConference (SGEM)*, 30 June - 9 July 2018, Varna, Bulgaria. URL

216) Lavidas G. (2018). Developments of energy in EU–unlocking the wave energy potential. *International Journal of Sustainable Energy*. doi:10.1080/14786451.2018.1492578

217) Rusu, E. (2018). Study of the Wave Energy Propagation Patterns in the Western Black Sea. *Applied Sciences*, In: Special Issue "Sustainable Energy Systems Planning, Integration and Management", MDPI, 8, 993. doi:10.3390/app8060993

218) Onea, F., and Rusu, L. (2017). Evaluation of future wind climate over the Eastern Mediterranean Sea. *Sustainability*, 9(10), 1875. doi:10.3390/su9101875

219) Ganea, D., Amortila, V., Mereuta, E. and Rusu, E. (2017). A Joint Evaluation of the Wind and Wave Energy Resources Close to the Greek Islands. *Sustainability*, 9(6):1025. doi:10.3390/su9061025

220) Vagenas, C., Anagnostopoulou, C. & Tolika, K. (2017). Climatic Study of the Marine Surface Wind Field over the Greek Seas with the Use of a High Resolution RCM Focusing on Extreme Winds. *Climate*, 5(2), 29. doi:10.3390/cli5020029

221) Kostopoulou, E. & Sakellariadou, F. (2017). The relation of Coastal Spatial Planning and Blue Growth and the resolution of the arising conflicts in a coastal area. *Proceedings of the International Maritime Association of the Mediterranean (IMAM) 2017 Annual Conference*. 9-11 October 2017, Lisbon, Portugal. URL

222) Lamprinidis N. & Belibassakis K.A. (2017). Ship weather routing focusing on propulsion energy efficiency. *Proceedings of the 17th International Congress of the International Maritime Association of the Mediterranean (IMAM 2017)*, Maritime Transportation and Harvesting of Sea Resources, Vol. 1, pp. 429-437, Lisbon, Portugal, 9-11/10/2017, CRC Press/Balkema. Part of ISBN:978-081537993-5

A.1.5.

223) Losada IJ, Lara, JL (2025). Adaptations of Coastal Defence Systems. Chapter 10, IAHR Water Monographs, *In Book: Guidance for Water Engineering in Changing Climate (Eds. Ranzi et al.)* URL

224) Givehki, M., Melby, J., Garcia Moreno, F., Hodgens, K., Farhadzadeh, A. (2025). Effects of Design Parameters and Sea Level Rise on Lifecycle Performance of Rubble-Mound Breakwaters: A Computational-Statistical Framework. *Coastal Engineering*, doi:10.1016/j.coastaleng.2025.104897

225) Pattipawaej, O., Nugraha, A., & Dani, H. (2025). Experimental analysis of a submerged rubble mound breakwater in a 2D flume: Advancing sustainable development goals through innovative coastal engineering solutions. *International Journal of Innovative Research and Scientific Studies*, 8(6), 3265–3275. https://doi.org/10.53894/ijirss.v8i6.10325

226) Monioudi IN, Chatzistratis D, Moschopoulos K, Velegrakis AF, Polydoropoulou A, Chalazas T, Bouhouras E, Papaioannou G, Karakikes I, Thanopoulou H. (2025). Exposure of Greek Ports to Marine Flooding and Extreme Heat Under Climate Change: An Assessment. *Water*. 17(13):1897. https://doi.org/10.3390/w17131897

227) Musumeci R.E., Stagnitti M., Foti E. (2025). Spatial Assessment Of The Failure Probability Of Rubble-Mound Breakwaters. *Coastal Engineering Proceedings*, 38, Proceedings of 38th International Conference on Coastal Engineering (ICCE 2024), 8 – 14 September 2024, Rome, Italy. https://doi.org/10.9753/icce.v38.structures.99

228) Celli D., Castellino M., Pasquali D., Di Nucci C., De Girolamo P., Di Risio M. (2025). Run-Up at Rubble Mound Breakwaters with Submerged Berm: An Experimental Study. *Coastal Engineering Proceedings*, 38, Proceedings of 38th International Conference on Coastal Engineering (ICCE 2024), 8 – 14 September 2024, Rome, Italy. https://doi.org/10.9753/icce.v38.structures.105

229) Türkistanlı T.T., Özispa N., Tuğdemir Kök G., Özdemir Ü., Pehlivan D. (2025). Exploring Research Trends on Climate Change: Insights into Port Resilience and Sustainability. *Sustainability*. MDPI, 17(8):3542. https://doi.org/10.3390/su17083542

230) Rodríguez-Aguilar, L. J., Garza-Lagler, M. C., & Fernández-Díaz, V. Z. (2024). El Estudios sobre el costo del impacto por el incremento en el nivel del mar en los puertos y las metodologías empleadas para su cálculo: una revisión sistemática. *CienciaUAT*, 19(2). https://doi.org/10.29059/cienciauat.v19i2.1888

231) Jiao B, Zhao Q, Chen F, Liu C, Fang Q. (2024). Numerical Evaluation of Wave Dissipation on a Breakwater Slope Covered by Precast Blocks with Different Geometrical Characteristics. *Journal of Marine Science and Engineering*. 12(10):1735. https://doi.org/10.3390/jmse12101735

232) Mahmoudof, S. M., Eyhavand-Koohzadi, A., & Khosh Kholgh, A. (2024). Monsoonal patterns of wave reflection from rubble mound breakwater of Chabahar Bay. *Oceanologia*, Vol. 66, No. 3, https://doi.org/10.5697/ECMX9318

233) Lucio D., J.L. Lara, A. Tomás et al. (2024). Probabilistic assessment of climate-related impacts and risks in ports. *Reliability Engineering and System Safety*. https://doi.org/10.1016/j.ress.2024.110333

234) Fernandez-Perez, A., Lara, J.L., Lucio, D., Losada, I.J. (2024). Compound climate change risk analysis for port infrastructures. *Coastal Engineering*, 104560. https://doi.org/10.1016/j.coastaleng.2024.104560

235) Zhu P, Bai X, Liu H, Zhao Y. (2024). Stability Analysis of Breakwater Armor Blocks Based on Deep Learning. *Water*, 16(12):1689. https://doi.org/10.3390/w16121689

236) Medina J.R. (2024). Breakwaters in a Living Environment, *Proceedings of the 9th International Conference on Physical Modelling in Coastal Engineering (Coastlab24)*, Keynote Paper, Delft, Netherlands, May 13-16, 2024, TU Delft OPEN Publishing. doi:10.59490/coastlab.2024.819

237) Lucio D., Lara J.L., Tomás A., Losada I.J. (2024). Projecting compound wave and sea-level events at a coastal structure site under climate change. *Coastal Engineering*, 189, 104490. doi:10.1016/j.coastaleng.2024.104490

238) Naseri, A., Poursorkhabi, R. V., Beheshtizadeh, D., & Behzadfar, B. (2024). Coastal Protection and Wave Energy Reduction using Rubble-Mound Breakwater along with Submerged Obstacle and Floating Wave Barrier. *Proceedings of the 14th National Congress on Civil Engineering*, 21-22 May 2024, University of Zanjan, Zanjan, Iran. URL

239) Stagnitti, M., Lara, J. L., Musumeci, R. E., & Foti, E. (2023). Assessment of the Failure Probability of Upgraded Rubble-Mound Breakwaters. *Coastal Engineering Proceedings*, (37), papers.46. https://doi.org/10.9753/icce.v37.papers.46

240) Shabakhty, N., & Kharaghani, M. H. (2023). Reliability evaluation of different models' recession failure in berm breakwaters; case study Shahid Beheshti port breakwater. *Journal Of Marine Engineering*, 50-64. https://marine-eng.ir/article-1-1033-fa.pdf

241) Elkersh K., Atabay S., Yilmaz A.G., Morad Y., Nouar N. (2023). Extending the Design Life of the Palm Jumeirah Revetment Considering Climate Change Effects. *Hydrology*, MDPI, 10(5):111. https://doi.org/10.3390/hydrology10050111

242) Xu, W., Ma, Y., Liu, G., Li, M., Li, A., Jia, M., He, Z. and Du, Z., 2023. A review of research on tether-type submerged floating tunnels. *Applied Ocean Research*, *134*, p.103525. doi:10.1016/j.apor.2023.103525

243) Fernandez A., Lara J.L., Lucio D., Losada I.J. (2022). Adaptation Planning of Regional Ports based on a multi-hazard Climate Change Risk Assessment. *Proceedings of the IAHR World Congress*, pp. 7242 – 7251. doi:10.3850/IAHR-39WC2521716X2022916

244) Vafaeipour Sorkhabi, R., Naseri, A., Alami, M.T. and Mojtahedi, A., 2022. Experimental study of an innovative method to reduce the damage of reshaping rubble mound breakwaters. *Innovative Infrastructure Solutions*, 7(6), pp.1-17. doi:10.1007/s41062-022-00954-1

245) Sorkhabi, R.V., Alami, M.T., Naseri, A. and Mojtahedi, A., 2022. Experimental Analysis of the Effect of a Submerged obstacle and Floating Wave Barrier in front of a Rubble Mound Breakwater on Diminishing the Damage Parameter. *International Journal of Coastal, Offshore & Environmental Engineering*, Vol.7, No. 2, Spring 2022 (39-48). URL

246) Stagnitti, M., Lara, J.L., Musumeci, R.E. and Foti, E., 2022. Assessment of the variation of failure probability of upgraded rubble-mound breakwaters due to climate change. *Frontiers in Marine Science*, p.1789. doi:10.3389/fmars.2022.986993

247) Radfar S., Shafieefar M., Akbari H. (2022). Impact of copula model selection on reliability-based design optimization of a rubble mound breakwater. *Ocean Engineering*, Vol 260, 112023. doi:10.1016/j.oceaneng.2022.112023

248) Pepi, Y., Cecioni, C., and Franco, L. (2022). Role of Armor Roughness in Overtopping Response of Upgraded Multilayer Rubble Mound Breakwaters. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, *148*(5), p.04022017. doi:10.1061/(ASCE)WW.1943-5460.0000721

249) Naseri, A., Sorkhabi, R.V., Alami, M.T. and Mojtahedi, A., 2022. Damage Parameter Variations of Breakwater along with a Floating Wave Barrier and a Submerged Obstacle. *International Journal of Sustainable Construction Engineering and Technology*, *13*(1), pp.202-217. doi:10.30880/ijscet.2022.13.01.018

250) Sreekantan P.G., Sinha A.K., Havanagi V.G., and Dayana M. (2022). Failure analysis and mitigation of Shankumugham beach road, Kerala, India—a case study. *Arab J Geosci*, 15, 1263. doi:10.1007/s12517-022-10536-1

251) Alami M.T., Vafaeipour Sorkhabi R., Naseri A.R., Mojtahedi A.R. (2022). Enhancing Stability and Reduce Damage in Rubble-Mound Reshaping Breakwaters by Using Obstacles in Front of the Structure. *Civil Infrastructure Researches*, Vol. 7, Issue 2, pp. 33-49. doi:10.22091/CER.2021.7367.1297

252) Aalami, M. T., Vafaeipoor, R., Naseri, A., & Mojtahedi, A. (2022). Experimental Analysis of the Effect of the Distance of a Submerged Berm in front of a Reshaping Rubble Mound Breakwater on Diminishing the Damage Parameter. *Journal of Civil and Environmental Engineering*, *52*(107), 1-13. doi:10.22034/JCEE.2021.45699.2028

253) Mostaghiman A., Moghim M. N. (2022). An experimental study of partly/hardly reshaping mass-armored double-berm breakwaters. *Ocean Engineering*, Elsevier, Vol. 243, 110258 doi:10.1016/j.oceaneng.2021.110258

254) Radfar S. (2021). *Reliability based design optimization of rubble mound breakwater considering the correlation among design parameters*. PhD Thesis, Dept. of Marine Structures, Tarbiat Modares University. URL

255) Radfar S., Shafieefar M., Akbari H., Galiatsatou P.A., Mazyak A.R. (2021). Design of a rubble mound breakwater under the combined effect of wave heights and water levels, under present and future climate conditions. *Applied Ocean Research*, Vol. 112, 102711. doi:10.1016/j.apor.2021.102711

256) Celli D., Pasquali D., Fischione P., Di Nucci C., Di Risio M. (2021). Wave-induced dynamic pressure under rubble mound breakwaters with submerged berm: An experimental and numerical study. *Coastal Engineering*, 104014. doi:10.1016/j.coastaleng.2021.104014

257) Tabarestani, M.K., Feizi, A. and Bali, M. (2020). Reliability-based design and sensitivity analysis of rock armors for rubble-mound breakwater. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 42(3), pp.1-13. doi:10.1007/s40430-020-2207-8

258) Sadeghi, K. and Nouban, F. (2020). A simplified algorithm for conceptual estimation of the material quantities of rubble-mound breakwaters. *Ocean Systems Engineering*, 10(1), 111–129. doi:10.12989/OSE.2020.10.1.111

259) Tabarestani, M.K. (2020). Application of reliability theory on stability and sensitivity analysis of armor layer placed on rubble-mound breakwater. *Iranian Journal of Marine Technology*, Vol. 7, Issue 1, Serial Number 19, pp. 76-86. URL

260) کریمایی طبرستانی, 2020. کاربرد تئوری قابلیت اطمینان جهت بررسی پایداری و تحلیل حساسیت اندازه آرمور محافظ موج‌شکن تودەسنگی. فصلنامه علمی دریا فنون, 7(1), pp.76-86. URL

261) Fazeres-Ferradosa, T., Taveira-Pinto, F., Rosa-Santos, P. and Chambel, J. (2019). Probabilistic Comparison of Static and Dynamic Failure Criteria of Scour Protections. *Journal of Marine Science and Engineering*, 7 (11), p. 400. doi:10.3390/jmse7110400

262) Fazeres-Ferradosa, T., Welzel, M., Taveira-Pinto, F., Rosa-Santos, P. and Chambel, J. (2019). Brief review on the limit state function of dynamic scour protections. *IOP Conference Series: Materials Science and Engineering*, IOP Publishing, Vol. 700, No. 01, p. 2027. doi:10.1088/1757-899X/700/1/012027

263) Lee S.Y., Huynh T.-C., Dang N.-L. and Kim J.-T. (2019). Vibration characteristics of caisson breakwater for various waves, sea levels, and foundations. *Smart Structures and Systems*, Vol. 24, No. 4, pp. 525-539. doi:10.12989/sss.2019.24.4.525

264) Ranasinghe R. & Jongejan R. (2018). Climate Change, Coasts and Coastal Risk. *Journal of Marine Science and Engineering*, MDPI, 6(4), 141. doi:10.3390/jmse6040141

265) Skourti O.-M. (2019). *Methods of Ports Adaptation to Climate Change - Application to the Port of Evdilos, Ikaria*. Diploma Thesis, Department of Civil Engineering, NTUA. URL

A.1.6.

266) Quadrado, G.P., Serafin, K.A. (2026). Rising Impact Hours on Sandy Beaches Linked to Total Water Level Variability along U.S. Coastlines. *Coastal Engineering* doi:10.1016/j.coastaleng.2026.104963

267) Calvani, G. and Perona, P. (2026). Return period analysis of weakly non-stationary processes with trends, EGUsphere [preprint], https://doi.org/10.5194/egusphere-2025-6282

268) Chen Y., Yu H. (2026). Impact of Integrated Rice and Crab Farming on Landscape Ecological Risk: A Case Study in Panjin City. *Ecological Indicators*, Vol. 182, 114597. https://doi.org/10.1016/j.ecolind.2025.114597

269) Mirabbasi Najafabadi R., and Nazeri Tahroudi M. (2025). Application of copula functions in groundwater studies (A review). *Iranian Water Research Journal*. Vol. 19, 2(57). https://dx.doi.org/10.22034/iwrj.2025.15130.2670

270) Malliouri D., Petrakis S., Fadin L., Moretti J.C., Vandarakis D., Moraitis V., Drakopoulou P., and Kapsimalis V. (2025). Assessing the Coastal Flooding Risk from Present till 2100 at the Ancient City of

Delos, Greece, *Proceedings of the 3rd International Conference on Design and Management of Port, Coastal and Offshore Works (DMPCO),* Patra, Greece, May 7-9, 2025, pp. 169-170. URL

271) Saha K.K., Kumar P., Singh A., Kamranzad B., Young I.R., Rajni (2025). Assessment and Future Projections of Storm Surge Using CMIP6 Models in the Indo-Pacific Region. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2025.102560

272) Malliouri, D., Petrakis, S., Fadin, L. et al. (2025). The coastal flooding risk throughout the twenty-first century at the ancient city of Delos, Greece. *Nat Hazards*. https://doi.org/10.1007/s11069-025-07263-7

273) Malliouri, D. I., Kyriakidou, C., Moraitis, V., Vandarakis, D., Martzikos, N., Gad, F. K., ... & Kapsimalis, V. (2024). A new approach for the assessment of coastal flooding risk. Application in Rhodes island, Greece. *Applied Ocean Research*, 148, 104006. https://doi.org/10.1016/j.apor.2024.104006

274) Malliouri DI, Moraitis V, Petrakis S, Vandarakis D, Hatiris G-A, Kapsimalis V. (2023). A Non-Stationary and Directional Probabilistic Analysis of Coastal Storms in the Greek Seas. *Water*, 15(13):2455. https://doi.org/10.3390/w15132455

275) Radfar S., Galiatsatou P., Wahl T. (2023). Application of nonstationary extreme value analysis in the coastal environment – A systematic literature review. *Weather and Climate Extremes*, 100575. doi:10.1016/j.wace.2023.100575

276) Radfar, S. and Galiatsatou, P. (2023). Influence of Nonstationarity and Dependence of Extreme Wave Parameters on the Reliability Assessment of Coastal Structures – A Case Study. *Ocean Engineering*, 273, 113862. doi:10.1016/j.oceaneng.2023.113862

277) Goyal M.K., Gupta A.K., Jha S., Rakkasagi S., Jaina V. (2022). Climate change impact on precipitation extremes over Indian cities: Non-stationary analysis. *Technological Forecasting and Social Change*, Vol. 180, 121685. doi:10.1016/j.techfore.2022.121685

278) Razmi A., Mardani-Fard H.A., Golian S. et al. (2022). Time-Varying Univariate and Bivariate Frequency Analysis of Nonstationary Extreme Sea Level for New York City. *Environmental Processes*, 9, 8. doi:10.1007/s40710-021-00553-9

279) Galiatsatou P. and Iliadis C. (2022). Intensity-Duration-Frequency Curves at Ungauged Sites in a Changing Climate for Sustainable Stormwater Networks. *Sustainability*, 14(3), 1229. doi:10.3390/su14031229

280) Radfar S., Shafieefar M., Akbari H., Galiatsatou P.A., Mazyak A.R. (2021). Design of a rubble mound breakwater under the combined effect of wave heights and water levels, under present and future climate conditions. *Applied Ocean Research*, Vol. 112, 102711. doi:10.1016/j.apor.2021.102711

281) Jha, S., Das, J. and Goyal, M.K. (2021). Low Frequency Global-Scale Modes and its Influence on Rainfall Extremes over India: Nonstationary and Uncertainty Analysis. *International Journal of Climatology*. doi:10.1002/joc.6935

282) Takbash, A. and Young, I.R. (2020). Long-Term and Seasonal Trends in Global Wave Height Extremes Derived from ERA-5 Reanalysis Data. *Journal of Marine Science and Engineering*, *8*(12), p.1015. doi:10.3390/jmse8121015

283) Idier, D., Rohmer, J., Pedreros, R. et al. (2020). Coastal flood: a composite method for past events characterisation providing insights in past, present and future hazards-joining historical, statistical and modelling approaches. *Nat Hazards*. doi:10.1007/s11069-020-03882-4

284) Kudryavtseva, N., Soomere, T., and Männikus, R. (2020). Non-stationary analysis of water level extremes in Latvian waters, Baltic Sea, during 1961–2018, *Nat. Hazards Earth Syst. Sci. Discuss.* doi:10.5194/nhess-2020-100

285) Haigh, I.D. & Wahl, T. (2019). Advances in extreme value analysis and application to natural hazards. *Natural Hazards*, Springer, pp. 1-4. doi:10.1007/s11069-019-03628-x

A.1.7.

286) Nikoo Mohammad Reza (2026). Integration of Causal Deep Learning for Tide Level Forecasting in Data-Scarce Coasts, *Estuarine, Coastal and Shelf Science*, 109715. https://doi.org/10.1016/j.ecss.2026.109715

287) Гончарук, І. П., & Васалатій, Н. В. (2025). ОПЕРАТИВНЕ ПРОГНОЗУВАННЯ ПОРТОВОГО ХВИЛЮВАННЯ ТА РУХІВ ПРИШВАРТОВАНИХ СУДЕН ПІД ВПЛИВОМ ДОВГОПЕРІОДНИХ ХВИЛЬ У ПОРТАХ ЧОРНОГО МОРЯ. *ВОДНИЙ ТРАНСПОРТ*, (3), 96-102. https://vt.duit.in.ua/index.php/home/article/view/455

288) Pang T. (2025). *Assessing Coastal Erosion Under Climate Change: A Case Study of Prince Edward Island*. PhD Thesis, School of Climate Change and Adaptation, Canadian Centre for Climate Change and Adaptation, Faculty of Science, University of Prince Edward Island, Charlottetown, Prince Edward Island, Canada. URL

289) Almaliki, A. H., & Younis, J. A. (2025). Short-Term Tidal Forecasting Based on a TPE-Optimized Hybrid BiGRU–ResNet Framework. https://www.researchsquare.com/article/rs-7322013/latest

290) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

291) Lee, S.-D., Fan, C.-Y., Yang, C.-H. (2025). Exploration of safe navigation zones for large cruise ships entering Keelung port by fast time simulations. *International Journal of Naval Architecture and Ocean Engineering*, https://doi.org/10.1016/j.ijnaoe.2025.100690

292) Alshareef, M.H. (2025). Machine Learning Applications for Berth Allocation Optimization in Major Red Sea Ports: A Multi-Port Analysis, *Journal of King Abdulaziz University: Marine Science*, Vol. 35: No. 1, Article 9. https://kauj.researchcommons.org/jmars/vol35/iss1/9/

293) Angelopoulou O., and Chondros M. (2025). Numerical Modeling and Machine Learning Techniques for Predicting Wave Disturbance: A Case Study at the Marina of Kalamata, Greece. *Proceedings of the 3rd International Conference on Design and Management of Port, Coastal and Offshore Works (DMPCO),* Patra, Greece, May 7-9, 2025, pp. 27-28. URL

294) Abd-Kadir, K., Mohd Fadzil, F. K., Mohd Akhir, M. F., Ahmad Tajudin, A. J., & Harun, F. N. (2025). The user perception of ocean wave forecast model in Malaysia: A thematic review. Multidisciplinary Reviews. https://malque.pub/ojs/index.php/mr/article/view/8289

295) Almaliki A.H., Khattak A. (2025). Short- and long-term tidal level forecasting: A novel hybrid TCN + LSTM framework, *Journal of Sea Research*, 204, 102577. https://doi.org/10.1016/j.seares.2025.102577

296) Mba J.U. (2025). Optimizing Maritime Operations: Strategies for Navigational Accuracy and Accident Prevention at Sea. *International Journal of Research Publication and Reviews*, Vol 6, no 1, pp 149-165. https://doi.org/10.55248/gengpi.6.0125.0206

297) Daliri, M., De Leo, F., Loarca, A. M. L., Scovenna, M., Stocchino, A., Capello, M., ... & Besio, G. (2025). From hindcast to forecast: A statistical framework for real-time coastal circulation bulletins in the Gulf of Genoa. *Applied Ocean Research*, 154, 104337. https://doi.org/10.1016/j.apor.2024.104337

298) Vicens-Miquel M, Tissot PE, Medrano FA. (2024). Exploring Deep Learning Methods for Short-Term Tide Gauge Water Level Predictions. *Water*. 16(20):2886. https://doi.org/10.3390/w16202886

299) Bi, X., Shi,W., Xu, J., Lv, X. (2024). Influence of Grid Resolution and Assimilation Window Size on Simulating Storm Surge Levels. *J. Mar. Sci. Eng.* 12, 1233. https://doi.org/10.3390/jmse12071233

300) Chondros MK, Metallinos AS, Papadimitriou AG (2024). Enhanced Mild-Slope Wave Model with Parallel Implementation and Artificial Neural Network Support for Simulation of Wave Disturbance and Resonance in Ports. *Journal of Marine Science and Engineering*. 12(2), 281. doi:10.3390/jmse12020281

301) Vilko, J., Jakonen, A., Rantavuo, E., Lähdeaho, O., Henttu, V. (2024). Assessing the Impact of Dry Ports to the Supply Chain Safety and Security. *In: Montenegro, C., Rocha, Á., Cueva Lovelle, J.M. (eds) Management, Tourism and Smart Technologies. ICMTT 2023.* Lecture Notes in Networks and Systems, vol 774. Springer, Cham. https://doi.org/10.1007/978-3-031-43733-5_3

302) Scordamaglia V., A. Ferraro, L. Gurnari, F. Ruffa, C. De Capua and P. Giuseppe Filianoti (2023). A data-driven algorithm for detecting anomalies in underwater sensor-based wave height measurements. *2023 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea)*, La Valletta, Malta, pp. 21-26, doi:10.1109/MetroSea58055.2023.10317188

303) Baltikas, V. and Krestenitis, Y.N. (2023). A SpectralWave Model for Inhomogeneous Water Wave Fields Using the Quasi-Coherent Theory. *J. Mar. Sci. Eng.*, 11, 2066. https://doi.org/10.3390/jmse11112066

304) Patlakas P., Stathopoulos C., Kalogeri C., Vervatis V., Karagiorgos J., Chaniotis I., Kallos A., Ghulam A.S., Alomary A.M., Papageorgiou I., Diamantis D., Christidis Z., Snook J., Sofianos S., and Kallos G. (2023). The development and operational use of an integrated Numerical Weather Prediction System in the National Center of Meteorology of the Kingdom of Saudi Arabia. *Weather and Forecasting*, AMS. https://doi.org/10.1175/WAF-D-23-0034.1

305) Pang, T., Wang, X., Nawaz, R.A. et al. (2023). Coastal erosion and climate change: A review on coastal-change process and modeling. *Ambio*. Springer. https://doi.org/10.1007/s13280-023-01901-9

306) Gan G-Y, Wang Q, Wang Q-F. (2022). A Network DEA Approach for Performance Evaluation of Safety Supervision and Rescue Capability in the Port Waters of Changjiang MSA. *Journal of Marine Science and Engineering*. 10(12):2002. https://doi.org/10.3390/jmse10122002

307) Nikolic, Ž., Srzic, V., Lovrinovic, I., Perkovic, T., Šolic, P., Kekez, T. (2022). Coastal Flooding Assessment Induced by Barometric Pressure, Wind-Generated Waves and Tidal-Induced Oscillations: Kaštela Bay Real-Time Early Warning System Mobile Application. *Applied Sciences*. 12, 12776. https://doi.org/10.3390/app122412776

308) Pérez Gómez, B., Vilibić, I., Šepić, J., Međugorac, I., Ličer, M., Testut, L., Fraboul, C., Marcos, M., Abdellaoui, H., Álvarez Fanjul, E., Barbalić, D., Casas, B., Castaño-Tierno, A., Čupić, S., Drago, A., Fraile, M. Á., Galliano, D. A., Gauci, A., Gloginja, B., Martín Guijarro, V., Jeromel, M., Larrad Revuelto, M., Lazar, A., Keskin, I. H., Medvedev, I., Menassri, A., Meslem, M. A., Mihanović, H., Morucci, S., Niculescu, D., Quijano de Benito, J. M., Pascual, J., Palazov, A., Picone, M., Raicich, F., Said, M., Salat, J., Sezen, E., Simav, M., Sylaios, G., Tel, E., Tintoré, J., Zaimi, K., and Zodiatis, G. (2022). Coastal Sea

Level Monitoring in the Mediterranean and Black Seas, *Ocean Science*, 18, 997–1053. doi:10.5194/os-2021-125

309) Lisboa, S.R.S. (2021). *Definição da estratégia de exploração e do plano de negócio de uma tecnologia inovadora (NavSafety) para promover a segurança de navegação em zonas portuárias*. Thesis. URL

310) Chondros, M., Metallinos, A., Papadimitriou, A., Memos, C., Tsoukala, V. (2021). A Coastal Flood Early-Warning System Based on Offshore Sea State Forecasts and Artificial Neural Networks. *J. Mar. Sci. Eng.*, 9, 1272. doi.:10.3390/jmse9111272

A.1.8.

311) Campos, A. V. (2026). *Entre rios e marés: avaliação integrada da vulnerabilidade das planícies costeiras em sistemas estuarinos de Santa Catarina*. PhD Thesis. Programa de Pós-Graduação em Geografia da Universidade Federal de Santa Catarina como requisito parcial para a obtenção do título de Doutor em Geografia. https://repositorio.ufsc.br/handle/123456789/272070

312) Parvathy M.M., Balu R., Dwarakish G.S., Jagadeesha Pai B. (2026). Towards a strategic framework for coastal vulnerability assessment and adaptive management: a review. *ISH Journal of Hydraulic Engineering*. https://doi.org/10.1080/09715010.2026.2618738

313) Harmáčková, Z. V., Rounsevell, M. D. A., Selomane, O., Awuku-Sowah, E. M., Budiharta, S., Coll, M., Hales, S., Jung, M., Kumar, P., Leclère, D., Metaxas, A., Meirelles Oliveira , B., Nyelele, C., Owuor, M. A., Popp, A., Rashleigh, B., Thomas, S. M., Tsuchiya, K., Villamor, G., and Yue, T. X. (2024). Chapter 3: Future interactions across the nexus. *In: Thematic Assessment Report on the Interlinkages among Biodiversity, Water, Food and Health of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services.* Harrison, P. A., McElwee, P. D., and van Huysen, T. L. (eds.). IPBES secretariat, Bonn, Germany. https://doi.org/10.5281/zenodo.13850303

314) Khosravi, Y., Ouarda, T.B.M.J. (2025). Drought risks are projected to increase in the future in central and southern regions of the Middle East. *Commun Earth Environ* 6, 384. https://doi.org/10.1038/s43247-025-02359-1

315) Voorbrood, N. (2025). *Exploring the potential of Climate Information Services to address extreme precipitation and flooding in Southeast Europe*. MSc Thesis, Chair group: Water Systems and Global Change, Wageningen University. https://edepot.wur.nl/691288

316) Uwumborge, T.S. (2025). *Flood Vulnerability Assessment and Adaptation Strategies of Smallholder Farmers in Saboba District*. Doctoral Dissertation. http://www.udsspace.uds.edu.gh/handle/123456789/4419

317) Lei, J., Wang, Y., Niu, X. et al. Research on sustainable development strategies based on basin ecological health assessment: a case study of the Fan River. *Environ Monit Assess* 197, 422 (2025). https://doi.org/10.1007/s10661-025-13887-w

318) Kourtis, I.M., Papadopoulou, C.A., Trabucco, A. et al. Methodological Framework for the Evaluation of Climate Change Impacts on Rural Basins Using the GR2M Model. *Environ. Process.* 12, 13 (2025). https://doi.org/10.1007/s40710-025-00755-5

319) Nie, T., Wang, Z., Zhang, Z. et al. (2024). Spatio-temporal variability in rice water supply and crop coefficients based on lysimeter measurements at 21 stations in Heilongjiang Province. *Irrig Sci*. https://doi.org/10.1007/s00271-024-00978-8

320) Hendarto, T. (2024). Sustainable Agribusiness Development In Coastal Areas: Integrating Marine Resource Management And Agriculture. *Migration Letters*, *21*(S5), pp. 386-400. https://migrationletters.com/index.php/ml/article/view/7719

321) Bayeroju, O. F., Sanusi, A. N., & Nwokediegwu, Z. Q. S. (2023). Framework for Resilient Construction Materials to Support Climate-Adapted Infrastructure Development. *Shodhshauryam, International Scientific Refereed Research Journal*, Volume 6, Issue 5. https://doi.org/10.32628/SHISRRJ

322) Campos, A.V. and Bonetti, J. (2023). Vulnerability of Estuarine systems to the effects of climate change – a bibliometric analysis. *Quaternary and Environmental Geosciences,* Open Access, Vol 14, Issue 2, pp. 46 – 59. doi:10.5380/abequa.v14i2.89558

323) Badora, D., Wawer, R. and Król-Badziak, A., 2023. Modelling 2050 Water Retention Scenarios for Irrigated and Non-Irrigated Crops for Adaptation to Climate Change Using the SWAT Model: The Case of the Bystra Catchment, Poland. *Agronomy*, *13*(2), p.404. https://doi.org/10.3390/agronomy13020404

324) Re A, Minola L, Pezzoli A. 2023. Climate Scenarios for Coastal Flood Vulnerability Assessments: A Case Study for the Ligurian Coastal Region. *Climate*, 11(3):56. https://doi.org/10.3390/cli11030056

325) Kyriakopoulos G.L., Sebos I., 2023. Enhancing Climate Neutrality and Resilience through Coordinated Climate Action: Review of the Synergies between Mitigation and Adaptation Actions, *Climate*, MDPI, 11(5):105. https://doi.org/10.3390/cli11050105

326) Almulla, Y., Zaimi, K., Fejzić, E., Sridharan, V., De Strasser, L. and Gardumi, F., 2023. Hydropower and climate change, insights from the integrated water-energy modelling of the Drin Basin. *Energy Strategy Reviews*, *48*, p.101098. https://doi.org/10.1016/j.esr.2023.101098

327) Atayi, J., Anornu, G.K., Awotwi, A. et al. (2023). Terrestrial water storage and climate variability study of the Volta River Basin, West Africa. *Theoretical and Applied Climatology*. https://doi.org/10.1007/s00704-023-04636-5

328) Dau, Q.V.,Wang, X., Shah, M.A.R., Kinay, P., Basheer, S. (2023). Assessing the Potential Impacts of Climate Change on Current Coastal Ecosystems—A Canadian Case Study. *Remote Sensing*, 15, 4742. https://doi.org/10.3390/rs15194742

329) Skoulikaris Ch., Venetsanou P., Lazoglou G., Anagnostopoulou Chr., and Voudouris K. (2022). Spatio-Temporal Interpolation and Bias Correction Ordering Analysis for Hydrological Simulations: An Assessment on a Mountainous River Basin. *Water,* 14(4), 660. doi:10.3390/w14040660

330) Nooni, I.K.; Hagan, D.F.T.; Ullah, W.; Lu, J.; Li, S.; Prempeh, N.A.; Gnitou, G.T.; Sian, K.T.C.L.K. (2022). Projections of Drought Characteristics Based on the CNRM-CM6 Model over Africa. *Agriculture* 2022, 12, 495. doi:10.3390/agriculture12040495

331) Stefanopoulou D.K. and Skoulikaris C. (2022). Assessment of hydrodiplomacy effectiveness under climate change: The case study of the transboundary river basins of Greece. *IOP Conf. Ser.: Earth Environ. Sci.*, 1123, 012089. doi:10.1088/1755-1315/1123/1/012089

332) Ibáñez C. and Caiola N. (2021). Sea-level rise, marine storms and the resilience of Mediterranean coastal wetlands: lessons learned from the Ebro Delta. *Marine and Freshwater Research*. doi:10.1071/MF21140

333) Nabih S., Tzoraki O., Zanis P., Tsikerdekis T., Akritidis D., Kontogeorgos I., Benaabidate L. (2021). Alteration of the Ecohydrological Status of the Intermittent Flow Rivers and Ephemeral Streams due to the Climate Change Impact (Case Study: Tsiknias River). *Hydrology*, 8(1), 43. doi:10.3390/hydrology8010043

334) Lee, C.-W. and Yoo, D.-G. (2021). Evaluation of Drought Resilience Reflecting Regional Characteristics: Focused on 160 Local Governments in Korea. *Water*, MDPI, 13, 1873. doi:10.3390/w13131873

335) Skoulikaris, C. (2021). Transboundary Cooperation Through Water Related EU Directives' Implementation Process. The Case of Shared Waters Between Bulgaria and Greece. *Water Resources Management*. doi:10.1007/s11269-021-02983-4

336) Wang, Z., Qi, G. and Wei, W. (2021). China's coastal seawater environment caused by urbanization based on the seawater environmental Kuznets curve. *Ocean & Coastal Management*, *213*, p.105893. doi:10.1016/j.ocecoaman.2021.105893

A.1.9.

337) Liu Y., Z. Song and M. Zhang (2026). Numerical study of nutrient responses to environmental factors in complex river-estuary interactions, *Journal of Sea Research* https://doi.org/10.1016/j.seares.2025.102664

338) Anastasopoulos, L., Gkaragkouni, A., Sergiou, S., Geraga, M., Dimas, X., Christodoulou, D., & Papatheodorou, G. (2025). Heavy metal contamination in the seafloor of the Thermaikos Gulf, Greece. A review. *Regional Studies in Marine Science*, 104530. https://doi.org/10.1016/j.rsma.2025.104530

339) Kouvara, K., Lazou-Laskaridis, E., Xirotagarou, P., Christodoulou, D., Dimas, X., Geraga, M., ... & Papatheodorou, G. (2025). Assessing marine litter and its ecological impact on the seafloor of Thermaikos Gulf (NE Mediterranean Sea, Greece): Insights from ROV and diver surveys. *Marine Pollution Bulletin*, 217, 118109. https://doi.org/10.1016/j.marpolbul.2025.118109

340) Kastelianaki S., Kartsonis N.P. (2024). *The beneficial properties for human health of Mullus barbatus and their chemical study in samples from the Thermaikos bay*. Graduate Thesis, Faculty of Health and Welfare Sciences, Department of Biomedical Sciences, University of West Attica. (in Greek) URL

341) Malik, S., & Muzaffar, S.B. (2024). Determination of potentially toxic elements bioaccumulated in the commercially important pelagic fish narrow-barred Spanish mackerel (Scomberomorus commerson). *Marine Pollution Bulletin*, 201, 116281. doi:10.1016/j.marpolbul.2024.116281

342) Hacioğlu F. (2024). *Tez Adi Müsilaj Oluşumu Ve Etkileyen Faktörler*. Thesis, Manisa Celal Bayar Üniversitesi, Fen Edebiyat Fakültesi. URL

343) Kallianiotis AA, Anastasiadou C, Batjakas IE. (2024). Catalyzing Conservation: An Analysis of Fish Stock Dynamics in a Marine Protected Area before and after Artificial Reef Deployment. *Coasts*, 4(1):150-167. https://doi.org/10.3390/coasts4010009

344) Καρτσώνης, Ν. Π., & Καστελιανάκη, Σ. (2024). *Οι ευεργετικές ιδιότητες για την ανθρώπινη υγεία του Mullus barbatus και η χημική μελέτη τους σε δείγματα από τον Θερμαϊκό κόλπο*. Σχολή Επιστημών Υγείας & Πρόνοιας. Τμήμα Βιοϊατρικών Επιστημών. http://dx.doi.org/10.26265/polynoe-7789, https://polynoe.lib.uniwa.gr/xmlui/handle/11400/7957

345) Uttieri M, Anadoli O, Banchi E, Battuello M, Beşiktepe Ş, Carotenuto Y, Marques SC, de Olazabal A, Di Capua I, Engell-Sørensen K et al. 2023. The Distribution of Pseudodiaptomus marinus in European and Neighbouring Waters—A Rolling Review. *Journal of Marine Science and Engineering*. 11(6):1238. https://doi.org/10.3390/jmse11061238

346) Kaberi, H. et al. (2023). Thermaikos Gulf: An Area Under Multiple Natural and Anthropogenic Pressures. In: *The Handbook of Environmental Chemistry*. Springer, Berlin, Heidelberg. https://doi.org/10.1007/698_2023_1045

347) Spondylidis S., Giannoulaki M., Machias A., Batzakas I. and Topouzelis K. (2023). Can we actually monitor the spatial distribution of small pelagic fish based on Sentinel-3 data? An example from the North Aegean Sea (Eastern Mediterranean Sea). *Front. Mar. Sci.* 10:1117704. doi:10.3389/fmars.2023.1117704

348) Kallianiotis A.A., Batjakas I.E. (2023). Temporal and Environmental Dynamics of Fish Stocks in the Marine Protected Area of the Artificial Reef of Kitros, Pieria (Northern Greece, Mediterranean Sea). *J. Mar. Sci. Eng.*, 11, 1773. https://doi.org/10.3390/jmse11091773

349) Wang X., Zhao Q., Liu Y., Guan Y., Kang S. (2023). Analysis of hydrodynamic characteristics during the occurrence of red tide in the Qinhuangdao sea area. Regional Studies in Marine Science, 103180. https://doi.org/10.1016/j.rsma.2023.103180

350) S. Genitsaris, P. Kourkoutmani, N. Stefanidou, E. Michaloudi, M. Gros, E. García-Gómez, M. Petrović, L. Ntziachristos, M. Moustaka-Gouni (2023). Effects from maritime scrubber effluent on phytoplankton and bacterioplankton communities of a coastal area, Eastern Mediterranean Sea. *Ecological Informatics*, 102154, ISSN 1574-9541. doi:10.1016/j.ecoinf.2023.102154

351) Schoinas, K., Konstantou, V., Bompou, E., Floros, G., Chatziplis, D., Imsiridou, A., Loukovitis, D. (2023). Microbiome Profile of the Mediterranean Mussel (Mytilus galloprovincialis) from Northern Aegean Sea (Greece) Culture Areas, Based on a 16S rRNA Next Generation Sequencing Approach. *Diversity*, 15, 463. https://doi.org/10.3390/d15030463

352) Strogyloudi, E., Krasakopoulou, E., Giannakourou A. et al. (2023). How environmental factors determine mussel metal concentrations? A comparative study between areas facing different pressures. *Regional Studies in Marine Science*, 102806. doi:10.1016/j.rsma.2022.102806

353) Yildirim HH et al. (2022). Ecological Sustainability with Alternative Deep Cleaning in Mucilage. *Proceedings of the 3rd International Mountain and Ecology Congress Within the Framework of Sustainable Development (MEDESU2022)*. October 20-21, 2022/ Trabzon-Türkiye. URL

354) Genitsaris S, Stefanidou N, Sommer U, Moustaka-Gouni M (2022). Diversity of taxon-specific traits of seasonally distinct unicellular eukaryotic assemblages in a eutrophic coastal area with marked plankton blooms. *Aquat Microb Ecol* 88:167-185. doi:10.3354/ame01992

355) Guo J.R. (2022). *Constructing dynamic water quality models for tidal river based on stella system dynamics*. MSc Thesis, Department of Marine Environment and Engineering, National Sun Yat-sen University. URL

356) Kayhan F.E. and Yön Ertuğ N.D. (2022). Müsilaj Sorunu Ve Karakterizasyonu. *Doğanın Sesi*, 5 (9), 4-16. https://dergipark.org.tr/en/pub/dosder/issue/70938/1035976

357) Tsikoti C., and Genitsaris S. (2021). Review of Harmful Algal Blooms in the Coastal Mediterranean Sea, with a Focus on Greek Waters. *Diversity*, MDPI, 13, no. 8: 396. doi:10.3390/d13080396

358) Zachioti P., Rousselaki E., Konstadinopoulou A., Zoulias T., Assimakopoulou G., Fioraki V., Varkitzi I., Pagou K. and Pavlidou A. (2022). Trophic Status Evolution in Thermaikos Gulf during 1995-2007. *Proceedings of Marine and Inland Waters Research Symposium 2022*, Porto Heli, Greece, 16-19 September 2022. Part of ISBN: 978-960-9798-31-0 and ISSN: 2944-9723. URL

A.1.10.

359) Rafaelin, FF, Rifai AI, Handayani S, Prasetijo J, and Isradi M (2025). Global Trends in Coastal Protection Building Types at Oil and Gas Logistics Ports: A Bibliometric Analysis Using Visualization of Similarities

Viewer (VOSviewer). *Journal of Engineering Research and Reports,* 27(7):546-63. https://doi.org/10.9734/jerr/2025/v27i71590

360) Khan, R. U., Yin, J., Asad, M., Alomayri, T., & Jameel, M. (2025). Predicting seaport disruptions from natural hazards using automated machine learning. *Marine Pollution Bulletin*, 221, 118477. https://doi.org/10.1016/j.marpolbul.2025.118477

361) Fadzil, F. K. M., Abd-Kadir, K., Akhir, M. F. M., Tajudin, A. J. A., & Harun, F. N. (2025). The user perception of ocean wave forecast model in Malaysia: A thematic review. *Multidisciplinary Reviews*, 8(12), 2025391. https://doi.org/10.31893/multirev.2025391

362) Papadaki, L., Halkos, G., & Koundouri, P. (2025). *Strategic Investment and Decision-Making in Greek Ports: A Socio-Economic Analysis of Seminar Impacts* (No. 2543). Athens University of Economics and Business. http://wpa.deos.aueb.gr/docs/2025.Strategic.Investment.Decision.Making.Greek.Ports.pdf

363) Muhammad AS, Aprijanto, Cahyarsi M, Eny C, Muhammad I, Tjahjono P, Alin F (2024). Improving Coastal Defense Structures Through Comprehensive Flood Risk Assessments: a review and future research, *Kexue Tongbao / Chinese Science Bulletin*, ISSN: 0023-074X, Volume 69, Issue 09, 2899. URL

364) Santos JSd, Parise CK, Duarte L, Teodoro AC. (2024). Bibliometric Analysis of Global Research on Port Infrastructure Vulnerability to Climate Change (2012–2023): Key Indices, Influential Contributions, and Future Directions. *Sustainability*. 16(19):8622. https://doi.org/10.3390/su16198622

365) Han, D., & Xue, X. (2024). Hybrid intelligent models for predicting weekly mean significant wave heights. *Ocean Engineering*, 310, 118706. https://doi.org/10.1016/j.oceaneng.2024.118706

366) Scheel F., de Jong M.P.C., de Boer W.P. and Dobrochinski J.P.H. (2024). Global variability of climate change impacts on ports illustrated by assessing twenty major seaports worldwide. *Proceedings of 35th PIANC World Congress*, 29 April – 3 May 2024, Cape Town, South Africa. URL

367) Lousada S., Castanho R.A. (2023). Port Structures, Maritime Transport, and Tourism. *Water*. 15(22):3898. https://doi.org/10.3390/w15223898

368) Du, W., Zhang, X., Shi, H. et al. (2023). Long-Term Extreme Wave Characteristics in the Water Adjacent to China Based on ERA5 Reanalysis Data. *J. Ocean Univ. China*. https://doi.org/10.1007/s11802-024-5446-y

369) Pishehvarzad M., Majidi A., Moghadam S.M. (2023). Transformative Resilience in Port Infrastructure: Behavior Analysis of the New Oil Dolphin Quays Access Bridge at Bandar-e Anzali, *International Journal of Science and Engineering Applications*, Vol. 12, Issue 10, 44–53, ISSN: 2319–7560. doi:10.7753/IJSEA1210.1013

370) Malliouri DI, Moraitis V, Petrakis S, Vandarakis D, Hatiris G-A, Kapsimalis V. (2023). A Non-Stationary and Directional Probabilistic Analysis of Coastal Storms in the Greek Seas. *Water*, 15(13):2455. https://doi.org/10.3390/w15132455

371) Radfar S., Galiatsatou P., Wahl T. (2023). Application of nonstationary extreme value analysis in the coastal environment – A systematic literature review. *Weather and Climate Extremes*, 100575. doi:10.1016/j.wace.2023.100575

372) Galiatsatou P. and Iliadis C. (2022). Intensity-Duration-Frequency Curves at Ungauged Sites in a Changing Climate for Sustainable Stormwater Networks. *Sustainability*, 14(3), 1229. doi:10.3390/su14031229

373) Yu, S., Wu, W. and Naess, A., 2023. Extreme value prediction with modified Enhanced Monte Carlo method based on tail index correction. *Journal of Sea Research*, p.102354. doi:10.1016/j.seares.2023.102354

374) Martzikos N., Malliouri D., Tsoukala V. (2023). Shape investigation and probabilistic representation of coastal storms. Applications to Mykonos and Barcelona, *Applied Ocean Research*, 135, 103563, https://doi.org/10.1016/j.apor.2023.103563

A.1.11.

375) Petrou, I., Kassomenos, P. (2026). Assessing population and sectoral economic exposure to extreme precipitation and Mediterranean tropical-like Cyclones in Greece using a multi-sector exposure index. *Theor Appl Climatol* 157, 210. https://doi.org/10.1007/s00704-026-06161-7

376) Corvaro S., Marini F., Rocchi S., Lorenzoni C. (2026). Bivariate extreme analysis for coastal flooding in the Adriatic Sea. *Estuarine, Coastal and Shelf Science*, Vol. 329, 109668, ISSN 0272-7714, https://doi.org/10.1016/j.ecss.2025.109668

377) Chukwuka, A.V., Adegboyegun, A.D., Adeogun, A.O. (2025). Climate Change Variables and Net-Zero Pathways: Building Coastal Resilience in West Africa Through Integrated Strategies. *In: Leal Filho, W., Salvia, A.L., Eustachio, J.P.P., Dinis, M.A.P. (eds) Handbook of Sustainable Blue Economy*. Springer, Cham. https://doi.org/10.1007/978-3-031-32671-4_126-1

378) Abbas, S., Ameer, A., Lv, F., Li, T., Chen, Y., Cao, L., ... & Khan, A. A. (2025). Southward to northward shifting trends of monsoonal precipitation and their connections with atmospheric circulations over Pakistan: A comparative study of 1961–1990 and 1991–2020. *Journal of Hydrology*, 134440. https://doi.org/10.1016/j.jhydrol.2025.134440

379) Memos CD, Roupas IP, Mylonas A. (2025). Methodological Overview of Hydrodynamic Loading on Seabed Structures in the South-East Mediterranean. *Journal of Marine Science and Engineering*, 13(11):2057. https://doi.org/10.3390/jmse13112057

380) Belivermis, M., Camuffo, D., Caiola, N., Ferrari, C., Mhammdi, N., Romero, E., Wolff, C., 2024: Drivers and their Interactions. In: Climate and Environmental Coastal Risks in the Mediterranean. [Djoundourian, S., Lionello, P., Llasat, M.C., Guiot, J., Cramer, W., Driouech, F., Gattacceca, J.C., Marini, K. (eds.)]. *MedECC Reports*. MedECC Secretariat, Marseille, France, pp. 71-130, doi:10.5281/zenodo.15096232

381) Irazoqui Apecechea, M., Melet, A., Menendez, M., Lobeto, H., and Valle-Rodriguez, J. B. (2025). Projections of changes in extreme storm surges for European coasts using statistical downscaling, *EGUsphere [preprint]*, https://doi.org/10.5194/egusphere-2025-3558

382) Cisse C.O.T., Almar R., and Sadio M. (2025). Storm Events Along the Coasts of Senegal. *Coasts,* MDPI, 6, 9. doi:10.3390/coasts6010009

383) Sánchez-Arcilla, A., Garrote, L., Gracia, V., Cáceres, I., Sánchez-Artús, X., Caiola, N., ... & Iglesias, A. (2025). Trade-offs and synergies in river-coastal restoration for the Ebro case (Spanish Mediterranean). *Nature Conservation*, 59, 101-137. https://natureconservation.pensoft.net/article/142061/download/pdf/

384) Badaoui W, Toledo-Guedes K, Valero-Rodriguez JM, Villar-Montalt A, Marhuenda-Egea FC (2025). Decoding Fish Origins: How Metals and Metabolites Differentiate Wild, Cultured, and Escaped Specimens. *Metabolites*, 15(7):490. https://doi.org/10.3390/metabo15070490

385) Mactar M. (2025). تصنيف المناخ ورصد حالة تدهور الغطاء النباتي الطبيعي بناءً على كل صنف في إقليم الجبل الأخضر في شمال شرق ليبيا, MSc Thesis in Geography, Advisor: MacTar Mohamed and Muftah Musa. URL

386) Granata, F., Zhu, S. & Di Nunno, F. (2025). Hydrological extremes in the Mediterranean basin: interactions, impacts, and adaptation in the face of climate change. *Reg Environ Change* 25, 100. https://doi.org/10.1007/s10113-025-02432-7

387) Cantos, J. O. (2025). El riesgo del cambio climático y su influencia en el aumento de emergencias de protección civil. *Revista d'estudis autonòmics i federals*, (41), 35-71. URL

388) Mylonas A., Roupas I., Memos C. (2025). Hydrodynamic Forces on Sea-bed Structures: A Methodology Overview for South-Eastern Mediterranean Sea*. Proceedings of the 3rd International Conference on Design and Management of Port, Coastal and Offshore Works (DMPCO),* Patra, Greece, May 7-9, 2025, pp. 57-58. URL

389) Lufira, I.R.D., Andawayanti, U., & ST Fitriani, N.Z. (2025). *Krisis Sumber Daya Air Pendekatan Inovatif dan Solusi Berkelanjutan*. CV. AE MEDIA GRAFIKA. URL

390) Saha K.K., Kumar P., Singh A., Kamranzad B., Young I.R., Rajni (2025). Assessment and Future Projections of Storm Surge Using CMIP6 Models in the Indo-Pacific Region. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2025.102560

391) Badaoui, W., Valero-Rodriguez, J. M., Villar-Montalt, A., Toledo-Guedes, K., & Marhuenda-Egea, F. C. (2025). Decoding Fish Origins: How Metals and Metabolites Differentiate Wild, Farmed, and Escaped Specimens. Preprints. https://doi.org/10.20944/preprints202504.0136.v1

392) Khalil, M.T., Mostafa, A.B., El-Naggar, M.M. (2025). Climate Change and Lessepsian Migration to the Mediterranean Sea. In: Khalil, M.T., Emam, W.W.M., Negm, A. (eds) Climate Changes Impacts on Aquatic Environment. *Earth and Environmental Sciences Library*. Springer, Cham. https://doi.org/10.1007/978-3-031-74897-4_4

393) Darmanin, G.C., Gauci, A., Giona Bucci, M., Deidun, A. (2025). Monitoring Sea Surface Temperature and Sea Surface Salinity Around the Maltese Islands Using Sentinel-2 Imagery and the Random Forest Algorithm. *Appl. Sci.*, 15, 929. https://doi.org/10.3390/app15020929

394) Bianchini M., Tarhouni M., Francioni M., Fiorentini M., Rivosecchi C., Msadek J., Tlili A., Chouikhi F., Allegrezza M., Tesei G., Deligios P.A., Orsini R., Ledda L., Karatassiou M., Ragkos A., D'Ottavio P. (2025). Modeling Climate-Driven Vegetation Changes Under Contrasting Temperate and Arid Conditions in the Mediterranean Basin. *Ecology and Evolution*, 15(1), e70753. https://doi.org/10.1002/ece3.70753

395) Petrou, I., Kassomenos, P. (2025). Spatiotemporal analysis of Holiday Climate Index for urban and beach destinations in Greece. *Theoretical and Applied Climatology*, 156, 27. https://doi.org/10.1007/s00704-024-05310-0

396) Aspioti AG, Fourniotis NT. (2024). A Brief Review of Hydrodynamic Circulation in the Mediterranean Gulfs. *Dynamics*, MDPI, 4(4):873-888. https://doi.org/10.3390/dynamics4040045

397) Hitige, L. Y., Arachchi, R. N., Ratnayake, N., Gunethilake, M., & Rathnayake, U. (2024). Potential inter-basin water transfer from the Kelani River to Mahaweli River, Sri Lanka to mitigate water issues. *International Journal of Environmental Science and Development*. URL

398) Berné S., Agin G., Alonso Y., Bassetti M.-A., Bourrin F., Hébert B., Estournel C., Many G., Olariu C., Petrenko A. (2024). A “natural sand plant” at the shelf edge in the low-energy Gulf of Lions, western Mediterranean Sea. *Geology*, https://doi.org/10.1130/G52549.1

399) Ocina Cantos, J., Martí Talavera, J., & Sánchez Almodóvar, E. (2024). Evolución reciente de precipitación y temperatura en la región mediterránea de la Península Ibérica: revisando la señal del calentamiento global a escala regional. *Cuadernos Geográficos*, *63*(2), 51–73. https://doi.org/10.30827/cuadgeo.v63i2.28374

400) Agulles, M., Marcos, M., Amores A. et al. (2024). Storm surge modelling along European coastlines: The effect of the spatio-temporal resolution of the atmospheric forcing. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2024.102432

401) Hatay, T. Y., TURGUT, B., Işık, Ş., Anagün, Y., & Mısır, M. (2024). Machine Learning Insights into Türkiye's Climate Variability: Predictive Modelling and Spatial Analysis. *Authorea Preprints*. https://www.authorea.com/doi/full/10.22541/au.172463437.78285184

402) Joudar, I., Bouchkara, M., Chahid, N.E. et al. (2024). Storm-induced marine flooding on Morocco's Atlantic Coast — case of El Jadida Bay. *Natural Hazards*. https://doi.org/10.1007/s11069-024-06781-0

403) Chaigneau, A. A., Menéndez, M., Ramírez-Pérez, M., and Toimil, A. (2024). Regional modelling of extreme sea levels induced by hurricanes. *Natural Hazards and Earth System Sciences* 24(11):4109-4131. doi:10.5194/nhess-24-4109-2024

404) Kalogiannidis S., Kalfas D., Papaevangelou O., Chatzitheodoridis F., Katsetsiadou K.-N., Lekkas E. (2024). Integration of Climate Change Strategies into Policy and Planning for Regional Development: A Case Study of Greece. *Land*, 13(3):268. doi:10.3390/land13030268

405) Ferrarin, C., Bonaldo, D., Bergamasco, A., & Ghezzo, M. (2024). Sea level and temperature extremes in a regulated Lagoon of Venice. *Frontiers in Climate*, 5, 1330388. doi:10.3389/fclim.2023.1330388

406) Focardi, S., & Pepi, M. (2024). Floods Countermeasures by Hybrid Approaches with Hard and Natural Engineering and Flooding events at Mediterranean Coasts. *Eng OA*, *2*(1), 01-11. URL

407) Kralj E., Kumer P., Meulenberg C.J.W. (2023). Coastal Flood Risk Assessment: An Approach to Accurately Map Flooding through National Registry-Reported Events. *Journal of Marine Science and Engineering*, 11(12):2290. doi:10.3390/jmse11122290

408) Nezhad SK, Barooni M, Velioglu Sogut D, Weaver RJ. (2023). Ensemble Neural Networks for the Development of Storm Surge Flood Modeling: A Comprehensive Review. *Journal of Marine Science and Engineering*, 11(11):2154. doi:10.3390/jmse11112154

409) Oelviani R., Adiyoga W., Mahatma Yuda Bakti I.G., Suhendrata T., Malik A. et al. (2023). Climate Change Driving Salinity: an Overview of Vulnerabilities, Adaptations, and Challenges for Indonesian Agriculture. *Weather, Climate, and Society*. doi:10.1175/WCAS-D-23-0025.1

410) Santos-Echeandía J., Bernárdez P., Sánchez-Marín P. (2023). Trace metal level variation under strong wind conditions and sediment resuspension in the waters of a coastal lagoon highly impacted by mining activities. *Science of The Total Environment*, Vol. 905, December 2023, 167806. doi:10.1016/j.scitotenv.2023.167806

411) Subbiah Elavazhagan B. (2023). *Barrier beach modelling as a management tool.* MSc Thesis, UPC, Barcelona, Spain. http://hdl.handle.net/2117/394899

412) Muis, S., Aerts, J. C. J. H., Á. Antolínez, J. A., Dullaart, J. C., Duong, T. M., Erikson, L., et al. (2023). Global projections of storm surges using high-resolution CMIP6 climate models. *Earth's Future*, 11, e2023EF003479. doi:10.1029/2023EF003479

413) Haberle, I., Hackenberger, D. K., Djerdj, T., Bavčević, L., Geček, S., Hackenberger, B. K., ... & Klanjscek, T. (2023). Effects of climate change on gilthead seabream aquaculture in the Mediterranean. *Aquaculture*, 740052. doi:10.1016/j.aquaculture.2023.740052

414) Malliouri DI, Moraitis V, Petrakis S, Vandarakis D, Hatiris G-A, Kapsimalis V. (2023). A Non-Stationary and Directional Probabilistic Analysis of Coastal Storms in the Greek Seas. *Water*, 15(13):2455. doi:10.3390/w15132455

415) Camatti E, Acri F, De Lazzari A, Nurra N, Pansera M, Schroeder A and Bergamasco A (2023) Natural or anthropogenic variability? A long-term pattern of the zooplankton communities in an ever-changing transitional ecosystem. *Front. Mar. Sci.* 10:1176829. doi:10.3389/fmars.2023.1176829

416) Sinha, S., Davis, C., Gardoni, P., Babbar-Sebens, M., Stuhr, M., Huston, D., . . . Vishwakarma, A. (2023). Water Sector Infrastructure Systems Resilience: A Social-Ecological-Technical System-of-Systems and Whole-Life Approach. *Cambridge Prisms: Water*, 1-50. doi:10.1017/wat.2023.3

A.1.12.

417) Sarkar, N., Rizzo, A., Vandelli, V. et al. (2026). Multi-risk assessment in the NW coast of the Island of Malta (central Mediterranean Sea). *Nat Hazards* 122, 255 (2026). https://doi.org/10.1007/s11069-025-07767-2

418) Donas A, Galanis G, Pytharoulis I, Famelis IT (2026). A Hybrid Offline–Online Kalman–RBF Framework for Accurate Relative Humidity Forecasting. *Atmosphere*. 17(2):162. https://doi.org/10.3390/atmos17020162

419) Federico, S., Torcasio, R. C., Transerici, C., Montopoli, M., Cambiotti, C., Manconi, F., ... & Pourshamsi, M. (2026). Assimilating WIVERN windpseudo-observations in WRF model: an application to the outstanding case of the Medicane Ianos. *Weather and Climate Dynamics*, 7(1), 165-183. doi:10.5194/wcd-7-165-2026

420) Dos Reis Lopes, I. (2025). *Effectiveness of nature-based solutions for coastal inundation: towards a digital twin for coastal management*. PhD Thesis. GEO/12 - OCEANOGRAFIA E FISICA DELL'ATMOSFERA. URL

421) Hung, N.T., Cuong, V.D., Thanh, N.T. et al. (2026). Simulation of Coastal Flooding Under Extreme Weather Patterns for Quang Tri Province, Vietnam. *Estuaries and Coasts*, 49, 22. https://doi.org/10.1007/s12237-025-01636-8

422) Rossi S, Keimeris D, Papachristou C, Tsanakas K, Faka A, Batzakis D-V, Soldati M, Karymbalis E. (2025). Preliminary Assessment of Long-Term Sea-Level Rise-Induced Inundation in the Deltaic System of the Northern Coast of the Amvrakikos Gulf (Western Greece). *Journal of Marine Science and Engineering*. 13(11):2114. https://doi.org/10.3390/jmse13112114

423) Laksono, F.A.T., Kovács, J., Czirok, L., Mishra, M., & Aditama, M. R. (2025). Coastal Deformation in Southern Sicily Assessed Using Sentinel-1 InSAR: Observed Changes Before and After Medicane Apollo with Baseline Temporal Comparisons. *Advances in Space Research*. https://doi.org/10.1016/j.asr.2025.09.099

424) Matos T., J.L. Rocha, H. Dinis, M.S. Martins and L.M. Goncalves (2025). Advancing Low-Cost, Low-Power and Compact Marine Monitoring: A Dual-Node Synchronized Network in the Cávado Estuary. *OCEANS 2025 Brest*, France, 2025, pp. 1-8, doi:10.1109/OCEANS58557.2025.11104796

425) Laksono F.A.T., Kovács J., Mishra M., Aditama M.R., and Czirok L. (2025). The Impact of Medicane Surge on the Vertical Land Motion of South Sicily Coast, Italy. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLVIII-G-2025, 869–876. https://doi.org/10.5194/isprs-archives-XLVIII-G-2025-869-2025

426) Di Capua G., George Zittis, Theo Economou et al. (2025). Increased risk of heat extremes in the Eastern Mediterranean during weak Indian summer monsoon years, 03 July 2025, PREPRINT (Version 1) available at Research Square. https://doi.org/10.21203/rs.3.rs-6887363/v1

427) Arsenis, S. T., Siozos, A. I., & Nastos, P. T. (2025). Thermodynamic Study of a Mediterranean Cyclone with Tropical Characteristics in September 2020. *Atmosphere*, 16(6), 722. https://doi.org/10.3390/atmos16060722

428) Rizzo A., Mattei G., Steenssens L.D., Anzidei M., Aucelli P.P.C., Alberti T., Antonioli F., Bezzi A., Bonaldo D., Fontolan G., Furlani S., Liso I.S., Parise M., Sansò P., Scicchitano G., Trippanera D., Vecchio A., Mastronuzzi G. (2025). Methodological advances in sea level rise vulnerability assessment: implications for sustainable coastal management in a climate change scenario, *Ocean & Coastal Management*, 268, 107751, https://doi.org/10.1016/j.ocecoaman.2025.107751

429) Saha K.K., Kumar P., Singh A., Kamranzad B., Young I.R., Rajni (2025). Assessment and Future Projections of Storm Surge Using CMIP6 Models in the Indo-Pacific Region. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2025.102560

430) Donas A, Galanis G, Pytharoulis I, Famelis IT (2025). A Modified Kalman Filter Based on Radial Basis Function Neural Networks for the Improvement of Numerical Weather Prediction Models. *Atmosphere*. 16(3):248. https://doi.org/10.3390/atmos16030248

431) Re A., Minola L., Pezzoli A. (2025). Modelling and Mapping Rapid-Onset Coastal Flooding: A Systematic Literature Review. *Water*. 17(4):599. https://doi.org/10.3390/w17040599

432) Androulidakis, Y., & Pytharoulis, I. (2025). Variability of marine heatwaves and atmospheric cyclones in the Mediterranean Sea during the last four decades. *Environmental Research Letters*. doi:10.1088/1748-9326/adb505

433) Zhang, Z., Song, Z., Wang, H. *et al.* (2025). A Novel Rapid Flood Inundation Method Based on GIS Combined with Hydrodynamics in Coastal and Riverine Regions. *Water Resour. Manage.* https://doi.org/10.1007/s11269-024-04080-8

434) Guo H., Huang C., Zhang C. and Shao Q. (2024). A novel comprehensive system for analyzing and evaluating storm surge disaster chains based on complex networks. *Front. Mar. Sci.* 11:1510791. doi:10.3389/fmars.2024.1510791

435) Rusu, E. (2024). An Assessment of the Expected Dynamics of the Extreme Storms in the Mediterranean Sea. *Journal of Coastal Research*, *113*(sp1), 1006-1010. https://doi.org/10.2112/JCR-SI113-197.1

436) Karditsa, A., Poulos, S.E. Socio-economic risk assessment of the setback zone in beaches threatened by sea level rise induced retreat (Peloponnese coast- Eastern Mediterranean). *Anthropocene Coasts* 7, 25 (2024). https://doi.org/10.1007/s44218-024-00061-x

437) Romero-Martín, R., Sanuy, M. & Jiménez, J.A. (2024). Unveiling the role of storm surges as a driver of flooding on the western Mediterranean: a case study of the Ebro Delta. *Natural Hazards*. https://doi.org/10.1007/s11069-024-06984-5

438) Romero Martín, R. (2024). *Confronting coastal hazards: contributions to climate change adaptation strategies and planning in the Mediterranean*. PhD Thesis, Universitat Politècnica de Catalunya. 10.5821/dissertation-2117-454091

439) Mishra, A.K., Jangir, B. & Strobach, E. (2024). Influence of mesoscale sea-surface temperature structures on the Mediterranean cyclone Ianos in convection-permitting simulations: Contributions of surface warming and cold wakes. *Quarterly Journal of the Royal Meteorological Society*, 1–21. https://doi.org/10.1002/qj.4862

440) Pantillon, F., Davolio, S., Avolio, E., Calvo-Sancho, C., Carrió, D. S., Dafis, S., Gentile, E. S., Gonzalez-Aleman, J. J., Gray, S., Miglietta, M. M., Patlakas, P., Pytharoulis, I., Ricard, D., Ricchi, A., Sanchez, C., and Flaounas, E. (2024). The crucial representation of deep convection for the cyclogenesis of Medicane Ianos, *Weather Clim. Dynam.*, 5, 1187–1205, https://doi.org/10.5194/wcd-5-1187-2024

441) Agulles, M., Marcos, M., Amores A. et al. (2024). Storm surge modelling along European coastlines: The effect of the spatio-temporal resolution of the atmospheric forcing. *Ocean Modelling*, https://doi.org/10.1016/j.ocemod.2024.102432

442) Normand J.C.L. and E. Heggy (2024). Assessing Sediment Transport Associated with Flood Erosion in Arid Areas Using InSAR Coherent Change Detection, *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*, Athens, Greece, 2024, pp. 3935-3938, doi:10.1109/IGARSS53475.2024.10642895

443) Normand, J.C.L., Heggy, E. (2024). Assessing flash flood erosion following storm Daniel in Libya. *Nat Commun* 15, 6493. https://doi.org/10.1038/s41467-024-49699-8

444) AlShafeey, M. (2024). Unraveling climate trends in the mediterranean: a hybrid machine learning and statistical approach. *Model. Earth Syst. Environ.* https://doi.org/10.1007/s40808-024-02117-w

445) Donas A, Galanis G, Pytharoulis I, Famelis IT. (2024). A Hybrid Extended Kalman Filter Based on Parametrized ANNs for the Improvement of the Forecasts of Numerical Weather and Wave Prediction Models. *Atmosphere*, 15(7):828. https://doi.org/10.3390/atmos15070828

446) Kushabaha A., Scardino G., Sabato G., Miglietta M.M., Flaounas E., Monforte P., Marsico A., De Santis V., Borzì A.M., Scicchitano G. (2024). ARCHIMEDE – An Innovative Web-GIS Platform for the Study of Medicanes. *Remote Sensing*, 16(14):2552. https://doi.org/10.3390/rs16142552

447) Malliouri, D. I., Kyriakidou, C., Moraitis, V., Vandarakis, D., Martzikos, N., Gad, F. K., ... & Kapsimalis, V. (2024). A new approach for the assessment of coastal flooding risk. Application in Rhodes island, Greece. *Applied Ocean Research*, 148, 104006. https://doi.org/10.1016/j.apor.2024.104006

448) Karditsa K., Niavis S., Paramana T., Monioudi I., Poulos S., Hatzaki M. (2023). Is the Insular Coastal Tourism of Western Greece at Risk Due to Climate Induced Sea Level Rise? *Ocean and Coastal Management*, 251, 107088. doi:10.1016/j.ocecoaman.2024.107088

449) Lymperi O.A., Varouchakis E.A. (2024). Modeling Extreme Precipitation Data in a Mining Area. *Math Geosci*. https://doi.org/10.1007/s11004-023-10126-1

450) Cavalli R.M. (2024). Remote Data for Mapping and Monitoring Coastal Phenomena and Parameters: A Systematic Review. *Remote Sensing*, MDPI, 16(3):446. https://doi.org/10.3390/rs16030446

451) Borzì A.M., Minio V., De Plaen R., Lecocq T., Cannavò F., Ciraolo G., ... & Cannata A. (2024). Long-term analysis of microseism during extreme weather events: Medicanes and common storms in the Mediterranean Sea. *Science of The Total Environment*, 169989. doi:10.1016/j.scitotenv.2024.169989

452) Avgoustoglou E., Matsangouras I., Pytharoulis I., Nastos P. (2023). Aeolus Data Validation for an Extreme Precipitation Event in Greece with the COSMO NWP Model. *Water*, 15(21):3820. https://doi.org/10.3390/w15213820

453) Falciano A., Anzidei M., Greco M., Trivigno M.L., Vecchio A., Georgiadis C., Patias P., Crosetto M., Navarro J., Serpelloni E. et al. (2023). The SAVEMEDCOASTS-2 webGIS: The Online Platform for Relative Sea Level Rise and Storm Surge Scenarios up to 2100 for the Mediterranean Coasts. *J. Mar. Sci. Eng.*, 11, 2071. https://doi.org/10.3390/jmse11112071

454) Varlas G., Pytharoulis I., Steeneveld G.-J., Katsafados P., Papadopoulos A. (2023). Investigating the impact of sea surface temperature on the development of the Mediterranean tropical-like cyclone “Ianos” in 2020. *Atmospheric Research*, 106827, https://doi.org/10.1016/j.atmosres.2023.106827

455) Paramana T., Karditsa A., Petrakis S., Milatou N., Megalofonou P., Dassenakis M., Poulos S. (2023). Ecosystem-Based Blue Growth: The Case of the Semi-Enclosed Embayment of the Inner NE Ionian Sea and Adjacent Gulfs. *Water*, 15(16):2892. https://doi.org/10.3390/w15162892

A.1.13.

456) Masi, M., Marrocco, E. S., Yeter, G., Vecchio, Y., Sardaro, R., Raggi, M., & Adinolfi, F. (2026). Circular aquaculture: Unpacking views from farm to fork. *Marine Policy*, 185, 106961. doi:10.1016/j.marpol.2025.106961

457) Aniramu, O. and Orimoogunje, O. (2025). Integrating Geospatial Mapping and Stakeholders’ Perception on Sustainable Flood Solutions in a Typical Coastal Megacity of Nigeria: A SWOT-AHP Approach. *Water and Environmental Sustainability*, 5(4), 48-67. doi:10.52293/WES.2025.4.1088

458) Kankanamge, N., Behara, K., Acikara, T., Yigitcanlar, T., & Paz, A. (2025). Community engaged vessel waterways management: Insights from the Noosa River stakeholder perspectives. *Ocean & Coastal Management*, 269, 107802. https://doi.org/10.1016/j.ocecoaman.2025.107802

459) Salehpour Jam, A., & Mosaffaie, J. (2025). Introducing the S_tW_tOT framework for integrated and strategic watershed management: the multi-stakeholder-based SWOT analysis in the Kal Aji watershed. *International Journal of River Basin Management*, 1–15. https://doi.org/10.1080/15715124.2025.2498358

460) Sanusi F.A., Houqe M.N., Ehalaiye D. (2025). Navigating Climate Risks: Reporting Practices and Assurance for a Sustainable Future. *In book: Climate Risks Reporting Practices and Assurance.* Vol. 13: Advances in Environmental Accounting & Management. Emerald Publishing. URL

461) Santoso A., Setiawan D., Brahmana R.K. (2025). Water Disclosure and Firm Value: A Pathway to Corporate Sustainability. *Business Strategy & Development*, 8(1), e70082. https://doi.org/10.1002/bsd2.70082

462) Maldonado-Santana, C., Torres-Valle, A., Franco-Billini, C., & Jauregui-Haza, U.J. (2025). Risk Perception in the Nigua River Basin: Key Determinants and Policy Implications. *Water*, 17(1), 45. https://doi.org/10.3390/w17010045

463) Yi, S., & Kondolf, G. M. (2024). Environmental Planning and the Evolution of Inter-Basin Water Transfers in the United States. *Frontiers in Environmental Science*, 12, 1489917. https://doi.org/10.3389/fenvs.2024.1489917

464) Tzanou E, Skoulikaris C. Geo-Referenced Databases and SWOT Analysis for Assessing Flood Protection Structures, Measures, and Works at a River Basin Scale. *Hydrology*. 2024; 11(9):136. https://doi.org/10.3390/hydrology11090136

465) Kotoulas, K. (2024). *Water Scarcity in Tinos: Understanding Stakeholder Perspectives by Using Fuzzy Cognitive Mapping for Potential Solutions*. MSc Thesis, Water Systems and Global Change, Urban Environmental Management, Wageningen University & Research. URL

466) Inkani, A.I., Mashi, S.A. & Sani, S. (2024). Towards enhanced climate change adaptation: using traditional ecological knowledge to understand the environmental effects of urban growth in Abuja, Nigeria. *Environ Dev Sustain.* https://doi.org/10.1007/s10668-024-04819-8

467) Cardone B., Di Martino F., Miraglia V. (2024). A GIS-Based Emotion Detection Framework for Multi-Risk Analysis in Urban Settlements. *Urban Science*. MDPI, 8(1):7. doi:10.3390/urbansci8010007

468) Effiong, C. J., Musa Wakawa Zenna, J., Hannah, D., & Sugden, F. (2024). Exploring loss and damage from climate change and global perspectives that influence response mechanism in vulnerable communities. *Sustainable Environment*, 10(1), 2299549. doi:10.1080/27658511.2023.2299549

469) Shahabi-Haghighi S.M.B. & Hamidifar H. (2023). Exploring the link between drought-related terms and public interests: Global insights from LSTM-based predictions and Google Trends analysis. *Hydrological Processes*, *37*(11), e15016. https://doi.org/10.1002/hyp.15016

470) Alaniri Y., Suryadi Y. (2023). The Impact Leuwikeris Dam and Matenggeng Dam Existence on Water Allocation Study of Citanduy Catchment. *Jurnal Sumber Daya Air*, vol. 19, No. 2. https://doi.org/10.32679/jsda.v19i2.857

471) Fernandez, J., Maillard, O., Uyuni, G., Guzmán-Rojo, M., Escobar, M. (2023). Multi-Criteria Prioritization of Watersheds for Post-Fire Restoration Using GIS Tools and Google Earth Engine: A Case Study from the Department of Santa Cruz, Bolivia. *Water*, 15, 3545. https://doi.org/10.3390/w15203545

A.1.14.

472) Niccolini, G., Bertini, A., Degl'Innocenti, N. et al. (2026). Six centuries (15th–21st) of environmental change and land-use in Mar Piccolo, Southern Italy: palynological and historical evidence. *Reg. Environ. Change* 26, 39. https://doi.org/10.1007/s10113-026-02527-9

473) Quadrado, G.P., Serafin, K.A. (2026). Rising Impact Hours on Sandy Beaches Linked to Total Water Level Variability along U.S. Coastlines. *Coastal Engineering* doi:10.1016/j.coastaleng.2026.104963

474) Thatiparthi K., Bonthu S. et al. (2025). Assessment of vulnerable villages on the landfall regions of intense cyclonic storms along the East Coast of India using an integrated storm surge modelling system - a case study for Cyclone Phailin. *Ocean Dynamics*, 75, 105. https://doi.org/10.1007/s10236-025-01753-9

475) Rossi S, Keimeris D, Papachristou C, Tsanakas K, Faka A, Batzakis D-V, Soldati M, Karymbalis E. (2025). Preliminary Assessment of Long-Term Sea-Level Rise-Induced Inundation in the Deltaic System of the Northern Coast of the Amvrakikos Gulf (Western Greece). *Journal of Marine Science and Engineering*. 13(11):2114. https://doi.org/10.3390/jmse13112114

476) Li L, Zhang B, Guo J, Zhu Y, He Z, Xia Y. (2025). Storm Surge Dynamics and Mechanisms in the Macao Cross Tidal Channel. *Journal of Marine Science and Engineering*. 13(11):2087. https://doi.org/10.3390/jmse13112087

477) Staines, M.N., Booth, D.T., Laloë, JO. et al. (2025). The impact of sea level rise on nesting sea turtles: a global meta-analysis to highlight current understanding and knowledge gaps. *Mar Biol* 172, 171. https://doi.org/10.1007/s00227-025-04726-0

478) Eyankware, M.O., Mba-Otike, M.N., Odesa, G.E. et al. (2025). Saline intrusion in Niger Delta coastal aquifers, drivers, hydrogeological dynamics and mitigation strategies. *Discov Geosci*, 3, 150. https://doi.org/10.1007/s44288-025-00264-w

479) Sousa Guedes D. (2025). *Plastic pollution and climate change effects on nesting beaches of loggerhead turtle Caretta Caretta.* PhD Thesis. Doctoral program in Biology, Department of Biology, Faculty of Sciences of the University of Porto. Doi:10.13140/RG.2.2.14873.33124

480) Monioudi IN, Chatzistratis D, Moschopoulos K, Velegrakis AF, Polydoropoulou A, Chalazas T, Bouhouras E, Papaioannou G, Karakikes I, Thanopoulou H. (2025). Exposure of Greek Ports to Marine Flooding and Extreme Heat Under Climate Change: An Assessment. *Water*. 17(13):1897. https://doi.org/10.3390/w17131897

481) Rizzo A., Mattei G., Steenssens L.D., Anzidei M., Aucelli P.P.C., Alberti T., Antonioli F., Bezzi A., Bonaldo D., Fontolan G., Furlani S., Liso I.S., Parise M., Sansò P., Scicchitano G., Trippanera D., Vecchio A., Mastronuzzi G. (2025). Methodological advances in sea level rise vulnerability assessment: implications for sustainable coastal management in a climate change scenario, *Ocean & Coastal Management*, 268, 107751, https://doi.org/10.1016/j.ocecoaman.2025.107751

482) Sousa-Guedes, D., Marco, A., Neves, E. et al. (2025). How vulnerable are the nesting sites of loggerhead turtles in Cabo Verde? *Reg Environ Change*, 25, 39. https://doi.org/10.1007/s10113-025-02371-3

483) Re A., Minola L., Pezzoli A. (2025). Modelling and Mapping Rapid-Onset Coastal Flooding: A Systematic Literature Review. *Water*. 17(4):599. https://doi.org/10.3390/w17040599

484) Zhuge W., Liu X., Li H., Liang B. (2024). High-resolution simulation of coastal flooding under extreme storm tides and sea level rise: A case study of Macau. *Physics of Fluids*, 36(12): 126637. https://doi.org/10.1063/5.0246103

485) Dingemanse, M.I., and Hugelius G. (2024). Modeling historic flood inundation hazard with GIS: The case of Schouwen-Duiveland and the 1953 storm surge. Preprint. doi:10.13140/RG.2.2.12952.51209

486) Yang S., Lin J., Xue X. (2024). Climate Change May Increase the Impact of Coastal Flooding on Carbon Storage in China's Coastal Terrestrial Ecosystems. *Land*, MDPI, 13(11):1871. https://doi.org/10.3390/land13111871

487) Fu C, Li T, Cheng K, Gao Y. (2024). Inundation Hazard Assessment in a Chinese Lagoon Area under the Influence of Extreme Storm Surge. *Water*, 16(14):1967. https://doi.org/10.3390/w16141967

488) Hussain M.A., Randhi U.D. (2024). An advanced GIS based approach for the assessment of coastal inundation in the storm surge region (Krishna District) of Andhra Pradesh, INDIA, *Disaster Advances*, Vol. 17(5), pp. 34-49. doi:10.25303/175da034049

489) Velegrakis, A.F., Chatzistratis, D., Chalazas, T. et al. (2024). Earth observation technologies, policies and legislation for the coastal flood risk assessment and management: a European perspective. *Anthropocene Coasts*, 7, 3. https://doi.org/10.1007/s44218-024-00037-x

490) Medeiros, S.C. (2023). Hydraulic Bottom Friction and Aerodynamic Roughness Coefficients for Mangroves in Southwest Florida, USA. *J. Mar. Sci. Eng.*, 11, 2053. https://doi.org/10.3390/jmse11112053

491) Stanton, C.Y. (2023). *Overcoming Data Limitation Challenges in Predicting Tropical Storm Surge with Interpretable Machine Learning Methods*. MSc Thesis, Texas A&M University, Corpus Christi ProQuest Dissertations Publishing, 30568687. URL

492) Tegos A., Ziogas A., Bellos V. (2023). Modern Developments in Flood Modelling. *Hydrology*, MDPI, 10(5):112. https://doi.org/10.3390/hydrology10050112

A.1.15.

493) Rossi S, Keimeris D, Papachristou C, Tsanakas K, Faka A, Batzakis D-V, Soldati M, Karymbalis E. (2025). Preliminary Assessment of Long-Term Sea-Level Rise-Induced Inundation in the Deltaic System of the Northern Coast of the Amvrakikos Gulf (Western Greece). *Journal of Marine Science and Engineering*. 13(11):2114. https://doi.org/10.3390/jmse13112114

494) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

495) Wang CX, Jiang T, Chen SR, et al. (2025). Inundation risk analysis of sea level rise in South China under SSP scenarios. *Climate Change Research* doi:10.12006/j.issn.167341719.2024.262

496) Monioudi IN, Chatzistratis D, Moschopoulos K, Velegrakis AF, Polydoropoulou A, Chalazas T, Bouhouras E, Papaioannou G, Karakikes I, Thanopoulou H. (2025). Exposure of Greek Ports to Marine Flooding and Extreme Heat Under Climate Change: An Assessment. *Water*. 17(13):1897. https://doi.org/10.3390/w17131897

497) Bruschi A, Geraldini S, D'Amen M, Bonora N, Taramelli A. (2025). Supply and Demand Analysis for Designing Sustainable National Earth Observation-Based Services for Coastal Area Monitoring. *Sustainability*. 17(12):5617. https://doi.org/10.3390/su17125617

A.1.16.

498) Donas A, Galanis G, Pytharoulis I, Famelis IT (2026). A Hybrid Offline–Online Kalman–RBF Framework for Accurate Relative Humidity Forecasting. *Atmosphere*. 17(2):162. https://doi.org/10.3390/atmos17020162

499) Kouvara, K., Lazou-Laskaridis, E., Xirotagarou, P., Christodoulou, D., Dimas, X., Geraga, M., ... & Papatheodorou, G. (2025). Assessing marine litter and its ecological impact on the seafloor of Thermaikos Gulf (NE Mediterranean Sea, Greece): Insights from ROV and diver surveys. *Marine Pollution Bulletin*, 217, 118109. https://doi.org/10.1016/j.marpolbul.2025.118109

500) Donas A, Galanis G, Pytharoulis I, Famelis IT (2025). A Modified Kalman Filter Based on Radial Basis Function Neural Networks for the Improvement of Numerical Weather Prediction Models. *Atmosphere*. 16(3):248. https://doi.org/10.3390/atmos16030248

501) Aspioti AG, Fourniotis NT. (2024). A Brief Review of Hydrodynamic Circulation in the Mediterranean Gulfs. *Dynamics*, MDPI, 4(4):873-888. https://doi.org/10.3390/dynamics4040045

502) Donas A, Galanis G, Pytharoulis I, Famelis IT. (2024). A Hybrid Extended Kalman Filter Based on Parametrized ANNs for the Improvement of the Forecasts of Numerical Weather and Wave Prediction Models. *Atmosphere*, 15(7):828. https://doi.org/10.3390/atmos15070828

503) Tzioga I., Moriki A. (2023). Microplastic Particles in Sandy Beaches of Thessaloniki Gulf, Greece. *WSEAS Transactions on Environment and Development*. doi:10.37394/232015.2023.19.124

A.1.17.

504) Spiliopoulos, G., Kapeliaris, A. T., Patroumpas, K., Betchavas, P., Skoutas, D., Zissis, D., & Bikakis, N. Multimodal Maritime Foundation Models: Challenges and Opportunities. *IEEE Preprint.* URL

505) Гончарук, І. П., & Васалатій, Н. В. (2025). ОПЕРАТИВНЕ ПРОГНОЗУВАННЯ ПОРТОВОГО ХВИЛЮВАННЯ ТА РУХІВ ПРИШВАРТОВАНИХ СУДЕН ПІД ВПЛИВОМ ДОВГОПЕРІОДНИХ ХВИЛЬ У ПОРТАХ ЧОРНОГО МОРЯ. *ВОДНИЙ ТРАНСПОРТ*, (3), 96-102. https://vt.duit.in.ua/index.php/home/article/view/455

506) Cao S, Yang D, Chen H, Ma X, Li M. (2025). Evaluation of Different AI-Based Wave Phase-Resolved Prediction Methods. *Journal of Marine Science and Engineering*. 13(11):2196. https://doi.org/10.3390/jmse13112196

507) Zhai Y., Shi H., Zhan C., Wang Q., You Z., Wang N. (2025). Improving significant wave height prediction using Chronos model, *Ocean Engineering*, Volume 341, Part 2, 122502, ISSN 0029-8018, https://doi.org/10.1016/j.oceaneng.2025.122502

508) Fadzil, F. K. M., Abd-Kadir, K., Akhir, M. F. M., Tajudin, A. J. A., & Harun, F. N. (2025). The user perception of ocean wave forecast model in Malaysia: A thematic review. *Multidisciplinary Reviews*, *8*(12), 2025391. https://doi.org/10.31893/multirev.2025391

509) Isbaex C., Costa Fd.R.F., & Batista T. (2025). Application of GIS in the Maritime-Port Sector: A Systematic Review. *Sustainability*, 17(8):3386. https://doi.org/10.3390/su17083386

510) Daliri, M., De Leo, F., Loarca, A. M. L., Scovenna, M., Stocchino, A., Capello, M., ... & Besio, G. (2025). From hindcast to forecast: A statistical framework for real-time coastal circulation bulletins in the Gulf of Genoa. *Applied Ocean Research*, 154, 104337. https://doi.org/10.1016/j.apor.2024.104337

511) Ghaderi, D. (2025). Investigation of wave height variations in the Strait of Hormuz based on numerical modeling. *Mar Dev* 3, 4. https://doi.org/10.1007/s44312-025-00047-4

512) Metheniti, V., Parasyris, A., Alexandrakis, G., Kozyrakis, G., & Kampanis, N. (2024). Local scale wave forecasting aiding harbor safety; A case study in Heraklion Port. *Technical Annals*, 1(7). https://doi.org/10.12681/ta.40368

A.1.18.

513) Ainali, N.M., Bikiaris, D.N., & Lambropoulou, D.A. (2026). Microplastics Across Interconnected Aquatic Matrices: A Comparative Study of Marine, Riverine, and Wastewater Matrices in Northern Greece. *Applied Sciences*, 16(2), 772. https://doi.org/10.3390/app16020772

514) Bhosale, Y. H., Selvaraj, F. J., & Jain, R. K. (2025). Integrating Artificial Intelligence, Data Analytics, and Decision Modelling for Sustainable Business Strategy: A Multi-Criteria Engineering Approach. *Advances in Consumer Research*, 2(6). https://research.ebsco.com/c/agcuo7/search/details/iog2vl2hub?request-context=plink&db=bsx

515) Vajpayee, A.; Khan, S.; Raju Gottimukkala, V. R.; Sharma, D.; Seshasai, S. J. & Prabu G (2025). Digital Financial Literacy 4.0: Consumer Readiness for AI-Driven Fintech and Blockchain Ecosystems. *International Insurance Law Review*, 33 (S5), 963-973. https://lumarpub.com/iilr/article/view/33.S5.61

516) Zuccollo, E. (2025). Social structure of the bottlenose dolphin (Tursiops truncatus) in the Thermaikos Gulf. MSc Thesis, Università degli Studi di Padova, Dipartimento di Biologia, Corso di Laurea Magistrale in Marine Biology. https://thesis.unipd.it/bitstream/20.500.12608/101686/1/Zuccollo_Eleonora.pdf

517) Kadu, R. K., Balde, G. H., & Kumar, S. V. (2025). Real-Time Aquatic Biodiversity Monitoring through IoT and Machine Learning Integration. *Vascular and Endovascular Review*, 8(17s), 400-408. https://verjournal.com/index.php/ver/article/view/1288/1089

518) Gavrou, S., Theodoropoulou, T., & Gourichon, I. (2025). Le passé et le présent de la pêche en Méditerranée: du collaboratif vers le participatif The past and present of Mediterranean fishing: from collaborative to participative. Démarches participatives en archéologie. *Actes de la séance de la Société préhistorique française de Paris* (14-15 Mars 2024), pp. 257-268, ISSN : 2263-3847 – ISBN : 978-2-9588382-0-1 URL

519) Saroha VK, Saranya K.,Aruna TN, Potteti S, Nithya L, Saravanan G (2025). Machine Learning Models for Employee Performance Prediction: Integrating Psychometrics and Managerial Decision-Making. *International Journal of Applied Mathematics*. 38(10s). https://doi.org/10.12732/ijam.v38i10s.976

520) Narayan, Y., Jindal, N., & Ramya, C. (2025). The Role of Artificial Intelligence in Predicting Intrauterine Fetal Demise: A Case-Control Study. *Vascular and Endovascular Review*, 8(9s), 58-65. https://verjournal.com/index.php/ver/article/view/719/591

521) Karuppaswamy, S., Shinde, M.B.G., Garg, A., Bhushan, D.S., Thorat, M.N., & Ramesh, D.S. (2025). AI-Driven Computer-Aided Design (CAD) Systems: Leveraging Neural Networks for Optimized Engineering Product Development. *TPM–Testing, Psychometrics, Methodology in Applied Psychology*, Vol. 32, S5: Posted 03 August, 1600-1606. https://tpmap.org/submission/index.php/tpm/article/view/2331

522) Thomas, R. et al. (2025). AI Tutors in the Indian Classroom: A Comparative Study of Language Learning through Adaptive Technology. *Anusandhanvallari*, 1495-1505, Vol. 2025, No.1, ISSN 2229-3388. https://psvmkendra.com/index.php/journal/article/view/355/258

523) Arslan, M., & Demirkaya, H. (2025). Investigation of the Cognitive Structures of Gifted Secondary School Students: A Study of Geography Concept. *Journal of Social Sciences and Education*, 8(2), 148-168. https://doi.org/10.53047/josse.1743426

524) Anastasopoulos, L., Gkaragkouni, A., Sergiou, S., Geraga, M., Dimas, X., Christodoulou, D., & Papatheodorou, G. (2025). Heavy metal contamination in the seafloor of the Thermaikos Gulf, Greece. A review. *Regional Studies in Marine Science*, 104530. https://doi.org/10.1016/j.rsma.2025.104530

525) Shah, A., Mehta, V. K., Sarvaiya, M. D., Zalawadia, K., Farooqui, Y., & Duran, H. (2025). IoT-enabled public administration: legal standards for data collection and usage. *Lex localis-Journal of Local Self-Government*, 23(S2), 394-405. https://lex-localis.org/index.php/LexLocalis/article/view/800393/1300

526) Mozakis I, Kalaitzoglou P, Skoulikari E, Tsigkas T, Ofrydopoulou A, Davakis E, Tsoupras A. (2025). The Quality of Greek Islands' Seawaters: A Scoping Review. *Applied Sciences*, 15(16):9215. https://doi.org/10.3390/app15169215

527) Ulker, D., Çelik, S., Çelik, O. İ., & Zeki, S. (2025). Numerical modelling and mapping the dynamic pulse of Gemlik Bay for sustainable coastal water management. *Marine Geodesy*, 1–35. https://doi.org/10.1080/01490419.2025.2544670

528) Baplawat D.A., Madhukar, Kumar B., Saxena V., Saxena S., and Das A. (2025). Microplastic Pollution In Agricultural Lands And Its Environmental Impact Assessed Through Remote Sensing. *International Journal of Environmental Sciences*, 11(11s), 141-152. https://doi.org/10.64252/x2hp5x30

529) Chiappi M., Stranga Y., Kalloniati C., Tsirintanis K., Tsirtsis G., Azzurro E. and Katsanevakis S. (2025). CIMPAL expanded: unraveling the cumulative impacts of invasive alien species, jellyfish blooms, and harmful algal blooms. *Front. Mar. Sci.* 12:1631423. doi:10.3389/fmars.2025.1631423

530) Kouvara, K., Lazou-Laskaridis, E., Xirotagarou, P., Christodoulou, D., Dimas, X., Geraga, M., ... & Papatheodorou, G. (2025). Assessing marine litter and its ecological impact on the seafloor of Thermaikos Gulf (NE Mediterranean Sea, Greece): Insights from ROV and diver surveys. *Marine Pollution Bulletin*, 217, 118109. https://doi.org/10.1016/j.marpolbul.2025.118109

531) D'Onofrio R, Vitelletti ML, Riminucci F, Rossi V, Capotondi L. (2025). *Virgulinella fragilis* in the North Adriatic Coastal Sediments: A New Non-Indigenous Benthic Foraminiferal Taxon? *Biology*. MDPI, 14(4):421. https://doi.org/10.3390/biology14040421

532) Kevrekidis K, Kevrekidis T, Chitinroglou CC, Avramoglou K, Keisaris S, Fryganiotis K, Apostologamvrou C, Roditi K, Voulgaris K, Varkoulis A, et al. (2024). Reproductive Biology of the Invasive Blue Crab Callinectes sapidus in the Thermaikos Gulf (Northwest Aegean Sea, Eastern Mediterranean): Identifying Key Information for an Effective Population Management Policy. *Journal of Marine Science and Engineering*, 12(11):1923. https://doi.org/10.3390/jmse12111923

A.1.19.

533) Ramiro I. Saurral, Diego A. Campos, Katherine Grayson, Vladimir Lapin, Paloma Trascasa-Castro, Etienne Tourigny, Markus G. Donat, Stefano Materia, Eric Ferrer, Francisco J. Doblas-Reyes (2026). The key role of Mediterranean and North Atlantic sea surface temperatures on the 2024 record-breaking Valencia precipitation event. *Weather and Climate Extremes*, Vol. 52, 100877, https://doi.org/10.1016/j.wace.2026.100877

534) Kuleli, T., Bayazıt, Ş. (2026). Sea surface temperature trends in the Aegean sea (2008–2024): from spatiotemporal warming patterns to a Spatial heat vulnerability index. *Nat Hazards* 122, 251. https://doi.org/10.1007/s11069-026-08026-8

535) Terzić E. and Vilibić I. (2026). Twenty-first century thermohaline trends and abrupt shifts in the Ionian Sea. *Front. Mar. Sci.* 12:1718186. doi:10.3389/fmars.2025.1718186

536) Tolika, K., Manios, E. M., Papadopoulos-Zachos, A., Velikou, K., & Anagnostopoulou, C. (2025). Can we predict the extreme? Assessing the skill of seasonal forecasts in capturing the 2024 European heatwave. *Environmental Research Letters*. doi:10.1088/1748-9326/ae21f7

537) Caterina B. (2025). *Impact of bathymetric thresholds on the hydrodynamic circulation in a micro-tidal setting and on the sedimentary processes in a semi-enclosed basin: case of the Corinth Gulf (Greece)*. University of Liège, Faculty of Sciences, Department of Geography, PhD Thesis. URL

538) Tellache A, Lazri Y, Laafer A, Attia S (2025). Adaptive Thermal Comfort Assessment in Residential Buildings Under Current and Future Mediterranean Climate Scenarios. *Buildings*. 15(17):3171. https://doi.org/10.3390/buildings15173171

539) Androulidakis, Y., & Pytharoulis, I. (2025). Variability of marine heatwaves and atmospheric cyclones in the Mediterranean Sea during the last four decades. *Environmental Research Letters*. doi:10.1088/1748-9326/adb505

540) Caterina B., Hubert-Ferrari A. (2025). Using 14 Years of Satellite Data to Describe the Hydrodynamic Circulation of the Patras and Corinth Gulfs. *Journal of Marine Science and Engineering*. 13(3):623. https://doi.org/10.3390/jmse13030623

A.1.20.

541) Yildirim, M.S., Yiğit, M.E. (2025). Analysis of ship-borne pollutant dispersion in Izmir port. ISARC International Science and Art Research Center's International Trakya Scientific Research Congress, 05-06 APRIL 2025, Edirne, Turkey. URL

A.1.21.

542) Donas A, Galanis G, Pytharoulis I, Famelis IT (2026). A Hybrid Offline–Online Kalman–RBF Framework for Accurate Relative Humidity Forecasting. *Atmosphere*. 17(2):162. https://doi.org/10.3390/atmos17020162

543) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

B.1.1.

544) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

545) Καραμούζης, Ε., 2023. *Παράκτια αποτύπωση προς καθορισμό οριογραμμής Αιγιαλού στην περιοχή του ναυτικού οχηρού «Τούρλος» Νήσου Αίγινας*. Διπλωματική Εργασία, Πανεπιστήμιο Δυτικής Αττικής, Σχολή Μηχανικών, Τμήμα Μηχανικών Τοπογραφίας και Γεωπληροφορικής, https://polynoe.lib.uniwa.gr/xmlui/handle/11400/3863

546) Papadopoulos, N. and Gikas, V. (2023). Combined Coastal Sea Level Estimation Considering Astronomical Tide and Storm Surge Effects: Model Development and Its Application in Thermaikos Gulf, Greece. *J. Mar. Sci. Eng.*, 11, 2033. https://doi.org/10.3390/jmse11112033

547) Καλπύρη Μ. (2022). *Μαθηματική προσομοίωση παράκτιας κατάκλυσης της παράκτιας ζώνης του Ρεθύμνου Κρήτης.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. URL

548) Intze S. (2020). *Bibliographic Review of the Use of Macrophyguases for Seawater Cleaning*. MSc Thesis, Hellenic Open University. URL

549) Γαλάνης Δ. (2020). *Επίδραση της μεταβλητότητας της στάθμης της θάλασσας και της παλίρροιας στη χωρική κατανομή του ύψους κύματος – Προσομοίωση της χωρικής κατανομής σε πέντε λιμένες του κόσμου.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.19052 URL

550) Θεοχαρίδης Χ. (2019). *Παρατήρηση, Επεξεργασία και Ανάλυση Βιογεωχημικών και Φυσικών Θαλάσσιων Προϊόντων μέσω Δορυφορικής Τηλεπισκόπησης και Συστημάτων Γεωγραφικών Πληροφοριών*. Μεταπτυχιακή Διατριβή, Τμήμα Πολιτικών Μηχανικών Και Μηχανικών Γεωπληροφορικής. Σχολή Μηχανικής και Τεχνολογίας. Τεχνολογικό Πανεπιστήμιο Κύπρου. URL, https://hdl.handle.net/20.500.14279/18662

551) Lazaridou M.P. (2018). *Development of a model for flood risk assessment of coastal urban areas. Case study: Volos.* Bachelor's Thesis. Department of Planning and Regional Development, Polytechnic School, University of Thessaly. URL

552) Katsouris M. (2017). *Estimation of the shoreline retreat on the coasts of East Crete*. University of the Aegean, School of Environmental Studies, Department of Marine Sciences, BSc Thesis (Supervisor Professor: Velegrakis A.). (*in Greek*) URL

553) Kontogiannatou T. (2017). *Modelling of the structure and function of an aquatic ecosystem*. MSc Dissertation. Department of Biology, University of Patras, Greece. URL

554) Αντωνίου Κ. (2017). *Πειραματική διερεύνηση πιέσεων μη θραυόμενων κυματισμών σε κοίλο αδιαπέρατο κυματοθραύστη.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.14324 URL

B.2.3.

555) Donas A, Galanis G, Pytharoulis I, Famelis IT (2026). A Hybrid Offline–Online Kalman–RBF Framework for Accurate Relative Humidity Forecasting. *Atmosphere*. 17(2):162. https://doi.org/10.3390/atmos17020162

556) Donas A, Galanis G, Pytharoulis I, Famelis IT (2025). A Modified Kalman Filter Based on Radial Basis Function Neural Networks for the Improvement of Numerical Weather Prediction Models. *Atmosphere*. 16(3):248. https://doi.org/10.3390/atmos16030248

557) Donas A, Galanis G, Pytharoulis I, Famelis IT. (2024). A Hybrid Extended Kalman Filter Based on Parametrized ANNs for the Improvement of the Forecasts of Numerical Weather and Wave Prediction Models. *Atmosphere*, 15(7):828. https://doi.org/10.3390/atmos15070828

558) Strypsteen, G., Bonte, D., Taelman, C., Derijckere, J., & Rauwoens, P. (2024). Three years of morphological dune development after planting marram grass on a beach. *Earth Surface Processes and Landforms*. doi:10.1002/esp.5870

559) Agulles Gámez, M., 2023. *Coastal hazards under climate change. The case of the Balearic Islands*. Doctoral Thesis, Universitat de les Illes Balears. URL

560) Eguibar, M.Á., Porta-García, R., Torrijo, F.J., Garzón-Roca, J. (2021). Flood Hazards in Flat Coastal Areas of the Eastern Iberian Peninsula: A Case Study in Oliva (Valencia, Spain). *Water*, MDPI, 13, 2975. doi:10.3390/w13212975

561) Louisor J, Rohmer J, Bulteau T, Boulahya F, Pedreros R, Maspataud A, Mugica J. (2021). Deriving the 100-Year Total Water Level around the Coast of Corsica by Combining Trivariate Extreme Value Analysis and Coastal Hydrodynamic Models. *Journal of Marine Science and Engineering*. MDPI, 9(12):1347. doi:10.3390/jmse9121347

562) Agulles M., Jordà G. and Lionello P. (2021). Flooding of Sandy Beaches in a Changing Climate. The Case of the Balearic Islands (NW Mediterranean). *Front. Mar. Sci.* 8:760725. doi:10.3389/fmars.2021.760725

563) Umair M. and Hashmani, M.A. (2021). Towards Development of Visual-Range Sea State Image Dataset for Deep Learning Models, *Proceedings of 2021 International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA)*, pp. 23-27. doi:10.1109/ICICyTA53712.2021.9689093

564) Kartsios, S., 2020. *Study of atmosphere-wildland fires interactions, using numerical models, in Greece*. Doctoral Dissertation, School of Sciences, Department of Geology. Division of Meteorology and Climatology, AUTh, Thessaloniki, Greece. URL

565) Tegoulias, I., 2020. *Implementation of an innovative methodology for the evaluation and optimization of the WRF model for the study of convective activity in Thessaly*. Doctoral Dissertation, School of

Sciences, Department of Geology. Division of Meteorology and Climatology, AUTh, Thessaloniki, Greece. URL

566) Kartsios S., Karacostas T., Pytharoulis I., Dimitrakopoulos A.P. (2020). Numerical investigation of atmosphere-fire interactions during high-impact wildland fire events in Greece, *Atmospheric Research*, Elsevier. doi:10.1016/j.atmosres.2020.105253

C.1.1.

567) Repousis E., Roupas I., Memos C. (2023). Wave Transmission over Rubble-Mound Submerged Breakwaters. *Journal of Marine Science and Engineering*. 2023; 11(7):1346. https://doi.org/10.3390/jmse11071346

568) van Gent, M.R., Buis, L., van den Bos, J.P. and Wüthrich, D., 2023. Wave transmission at submerged coastal structures and artificial reefs. *Coastal Engineering*, p.104344. doi:10.1016/j.coastaleng.2023.104344

569) Hassanpour, N., Vicinanza, D., Contestabile, P. 2023. Determining Wave Transmission over Rubble-Mound Breakwaters: Assessment of Existing Formulae through Benchmark Testing. *Water*, 15, 1111. doi:10.3390/w15061111

570) Singh M., Gayen R., Kundu S. (2022). Linear water wave propagation in the presence of an inclined flexible plate with variable porosity. Archive of Applied Mechanics. doi:10.1007/s00419-022-02201-6

571) Hernández-Valdés K. and López L.F.C. (2022). Determination of design parameters of submerged breakwater by means of numeric simulation for their employment in beaches [Determinación de parámetros de diseño de rompeolas sumergidos mediante simulación numérica para su empleo en playas]. *Tecnologia y Ciencias del Agua*, Vol. 13, Issue 11. doi:10.24850/j-tyca-2022-01-09

572) Sutikno S., Almanna F., Rinaldi, Mubarak and Murakami K. (2021). Physical and Numerical Simulation of Wave Transmission Over Submerged Breakwater, *Journal of Physics: Conference Series*, Vol. 2049, Universitas Riau International Conference on Science and Environment 2021 (URICSE-2021), 10-12 September 2021, Pekanbaru, Indonesia, IOP Publishing Ltd. URL

573) Inseeyong, N. and Sriariyawat, A. (2020). The Effect of Depths of Partial Breakwater on Wave Transmissibility by Physical Model. *การ ประชุม วิชาการ วิศวกรรม โยธา แห่ง ชาติ ครั้ง ที่*, pp. 25, WRE12. URL

574) Inseeyong, N. and Sriariyawat, A. (2019). Effectiveness of Wave Transmissibility on Partial Breakwater by Physical Model. *The 24th National Convention on Civil Engineering*, 10-12 July 2019, Udonthani, Thailand. URL

575) Arish, N.A.M., Karim, O.A., Melini, W.H. and Mohtar, W. (2019). Experimental Study of Wave Attenuation for a Tandem Breakwater. *International Journal of New Technology and Research (IJNTR)*, Vol. 5, Issue 4, pp. 114-117. ISSN:2454-4116

576) Kalyani, M., Kiran, A.S., Ravichandran, V., Suseentharan, V., Jena, B.K. and Murthy, M.R. (2019). Wave Transformation Around Submerged Breakwaters Made of Rubble Mound and Those Made of Geosynthetic Tubes — A Comparison Study for Kadalur Periyakuppam Coast. *Proc. of the 4th International Conference in Ocean Engineering (ICOE2018)*. Vol. 2, pp. 327-336, Springer, Singapore. doi:10.1007/978-981-13-3134-3_25

577) Κόγια Ε.Ε. (2019). *Διερεύνηση Συμπεριφοράς του Συντελεστή Μετάδοσης Κυματισμού Πίσω από Ύφαλο Κυματοθραύστη με Παρουσία ή μη Ποσειδωνίας*. ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.9532 URL

578) Sakib, S., Gang, D., Besse, G., Tang, B. B., McCoy, N., & Hayes, D. (2018). Laboratory study and mathematical modeling of a novel marsh shoreline protection technology for sand collection. *Applied Ocean Research*, 76, 22-33. doi:10.1016/j.apor.2018.04.007

579) Ning, D., Chen, L., Zhao, M. and Teng, B. (2016). Experimental and Numerical Investigation of the Hydrodynamic Characteristics of Submerged Breakwaters in Waves. *Journal of Coastal Research*, Vol. 32, Issue 4, pp. 800-813. doi:10.2112/JCOASTRES-D-15-00091

580) Thesnaar, E. (2015). *Efficiency of tandem breakwater in reducing wave heights and damage level: a Mossel Bay case study*. Doctoral dissertation at Stellenbosch University. URL

581) McCoy, N. (2015). *Functionality Evaluation of the Wave Suppressor and Sediment Collection (WSSC) System: Wave Reduction, Sediment Collection, Mathematical Model, and Preliminary Field Evaluation.* Thesis at the University of Louisiana at Lafayette. URL

582) Jager, T., Smoor, A.C., Tiehatten, B.M.H. and Wester, F.E. (2015). *Assessment and mitigation proposal in case of major tsunami impact.* Master Thesis at TU Delft, Department Hydraulic Engineering. URL

583) McCoy, N., Tang, B., Besse, G., Gang, D. and Hayes, D. (2015). Laboratory study of a novel marsh shoreline protection structure: Wave reduction, silt-clay soil collection, and mathematical modeling. *Coastal Engineering*, Vol. 105, pp. 13-20. doi:10.1016/j.coastaleng.2015.08.003

584) Μαντέλου Μ.Κ. (2014). *Μελέτη Υδροδυναμικού Πεδίου σε Φυσικό Ύφαλο Κυματοθραύστη*. ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.7781 URL

585) Memos, C.D. (2013). Submerged Coastal Structures: Overview of Some Recent Results (Invited Lecture). *Proceedings of 35th IAHR World Congress*, 8-13 September 2013, Chengdu, China. URL

586) Μεταλληνός Α.Σ. (2011). *Πεδίο Ταχυτήτων λόγω Κυματισμών στο Εσωτερικό Ύφαλης Κατασκευής*. ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.1318 URL

587) Lai, J.-W., Kuo, C.-T. and Hsu, T.-W. (2008). Physical Model Test on Wave Transmission to Culvert Pipes Block with Constrictive Sections. *Proc. 2008 Taiwan-Polish Joint Seminar on Coastal Protection.* 6-7 November 2008, Taiwan. URL

588) Lai, J.W., Kuo, C.T. and Hsu, T.W. (2008). An Experiment Study on the Relationship between Wave Transmission and the Culvert Pipes Block with Constrict Section. In *ICHE 2008. Proceedings of the 8th International Conference on Hydro-Science and Engineering*, September 9-12, 2008, Nagoya, Japan. URL

C.1.2.

589) Sutikno S., Almanna F., Rinaldi, Mubarak and Murakami K. (2021). Physical and Numerical Simulation of Wave Transmission Over Submerged Breakwater, *Journal of Physics: Conference Series*, Vol. 2049, Universitas Riau International Conference on Science and Environment 2021 (URICSE-2021), 10-12 September 2021, Pekanbaru, Indonesia, IOP Publishing Ltd. URL

590) Klonaris G. (Κλωνάρης Γ.) (2016). *Μορφοδυναμική ακτής με ύφαλους κυματοθραύστες - Morphodynamics in a beach with submerged breakwaters*. PhD Thesis, NTUA, School of Civil Engineering. URL

C.1.3.

591) Memos, C.D. (2013). Submerged Coastal Structures: Overview of Some Recent Results (Invited Lecture). *Proc. 35th IAHR World Congress*, 8-13 September 2013, Chengdu, China. URL

C.1.6.

592) Sarfaraz, M. and Pak, A., 2019. Weakly compressible SPH simulation of cnoidal waves with strong plunging breakers. *Ocean Dynamics*, pp.1-22. doi:10.1007/s10236-019-01266-2

C.1.8.

593) Sarfaraz, M. and Pak, A., 2019. Weakly compressible SPH simulation of cnoidal waves with strong plunging breakers. *Ocean Dynamics*, pp.1-22. doi:10.1007/s10236-019-01266-2

C.1.11.

594) Sarfaraz, M. and Pak, A., 2019. Weakly compressible SPH simulation of cnoidal waves with strong plunging breakers. *Ocean Dynamics*, pp.1-22. doi:10.1007/s10236-019-01266-2

C.1.12.

595) Merey, Ş. (2022). Gas hydrate research & development activities in Turkey? Colorado School of Mines, Center for Hydrate Research. September 14, 2022 URL

596) Merey, Ş. and Longinos, S.N. (2018). Does the Mediterranean Sea have potential for producing gas hydrates? *Journal of Natural Gas Science and Engineering*. doi:10.1016/j.jngse.2018.04.029

597) Katirtzidis A. (2015). *Coastal Areas Hazard Management of Extreme Marine Flood Phenomena*. MSc Thesis, PSP DDTE, AUTh. https://ikee.lib.auth.gr/record/281501/files/GRI-2016-15899.pdf

598) Kokkinos, D., Prinos, P. and Galiatsatou, P. (2014). Assessment of coastal vulnerability for present and future climate conditions in coastal areas of the Aegean Sea. *Proc. 11th International Conference on Hydroscience & Engineering (ICHE): Hydro-Engineering for Environmental Challenges*. Lehfeldt & Kopmann, September 2014, Hamburg, Germany. URL

599) Kokkinos D., Galiatsatou P., Prinos P. (2014). Vulnerability Index for Inundation of Coastal Areas of the Aegean Sea, *6th Panhellenic Conference of Coastal Zone Management and Restoration*, Athens, Greece.

600) Crhistodoulou C. (2015). *Wave run-up in the coastal zone of Rethymno under extreme wave conditions*. MSc Thesis, NTUA, Athens, Greece. URL

C.1.13.

601) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

602) Kokkos N. (2017). *Environmental management and simulation of coastal water systems of the Thracian Sea*. PhD Thesis, DUTh, doi:10.12681/eadd/42341

603) Kombiadou, K., Skoulikaris, C., Kontos, Y. and Krestenitis, Y. (2015). Assimilating riverine freshwater fluxes in circulation forecasts for the Thermaikos Gulf. *Proc. 11th Panhellenic Symposium on Oceanography and Fisheries*, University of the Aegean, Mytilene, Lesvos Island, Greece, 13-17 May 2015. URL

C.1.14.

604) Skourti O.-M. (2019). *Methods of Ports Adaptation to Climate Change - Application to the Port of Evdilos, Ikaria*. Diploma Thesis, Department of Civil Engineering, NTUA. URL

605) Skourti O.M.A., Papadakis M.I., Martzikos N.T., Chondros M.K., Tsoukala V.K. (2019). Adapting Ports to Climate Change – The Case of Evdilos Port, Ikaria Island, Greece. *Proc. of 2nd International Conference ADAPTtoCLIMATE 2019*, Heraklion, Crete, Greece, June 2019. URL

606) Katirtzidis A. (2015). *Coastal Areas Hazard Management of Extreme Marine Flood Phenomena*. MSc Thesis, PSP DDTE, AUTh. https://ikee.lib.auth.gr/record/281501/files/GRI-2016-15899.pdf

C.1.15.

607) Kallianiotis AA, Anastasiadou C, Batjakas IE. (2024). Catalyzing Conservation: An Analysis of Fish Stock Dynamics in a Marine Protected Area before and after Artificial Reef Deployment. *Coasts*, 4(1):150-167. https://doi.org/10.3390/coasts4010009

608) Kallianiotis A.A., Batjakas I.E. (2023). Temporal and Environmental Dynamics of Fish Stocks in the Marine Protected Area of the Artificial Reef of Kitros, Pieria (Northern Greece, Mediterranean Sea). *J. Mar. Sci. Eng.*, 11, 1773. https://doi.org/10.3390/jmse11091773

609) Briggs D. (2020). *Climate changed: Refugee border stories and the business of misery*. Routledge, pp.224. 1st Edition, London, UK. doi:10.4324/9781003004929, eBook ISBN 9781003004929.

610) Tsanakas K., Karymbalis E., Cundy A., Gaki-Papanastassiou K., Papanastassiou D., Drinia H., Koskeridou E., and Hampik M. (2019). Late Holocene Geomorphic Evolution Of The Livadi Coastal Plain, Gulf Of Argostoli, Cephalonia Island, Western Greece. *Geografia Fisica e Dinamica Quaternaria*, pp. 43-60. doi:10.4461/ GFDQ.2019.42.4

611) Skourti O.-M. (2019). *Methods of Ports Adaptation to Climate Change - Application to the Port of Evdilos, Ikaria*. Diploma Thesis, Department of Civil Engineering, NTUA. URL

612) Katirtzidis A. (2015). *Coastal Areas Hazard Management of Extreme Marine Flood Phenomena*. MSc Thesis, PSP DDTE, AUTh. https://ikee.lib.auth.gr/record/281501/files/GRI-2016-15899.pdf

C.1.17.

613) Papadopoulos, N. and Gikas, V. (2025). Exploring LSTM neural networks for sea level forecasting based on two-decadal tidal and meteorological data. *Journal of Applied Geodesy*. https://doi.org/10.1515/jag-2025-0068

614) Chatzistratis D., A.F. Velegrakis, T. Chalazas, B. Alves, E. Schiavon, I. Monioudi, C. Armaroli (2025). European Early Warning Systems for coastal floods: User needs, system availability and pertinent policy and legislation, *International Journal of Disaster Risk Reduction*, https://doi.org/10.1016/j.ijdrr.2025.105602

615) Kallianiotis, A.A., Kamidis, N., Tselepides, A., Batjakas, I.E. (2023). Spatiotemporal and Environmental Dynamics of Abundances and Diversity of Larval Fish in Artificial Reef Edge Habitats of Kitros, Pieria (Northern Aegean Sea, Eastern Mediterranean). *J. Mar. Sci. Eng.* 2023, 11, 40. https://doi.org/10.3390/jmse11010040

616) Kalantzi, G., Hatzopoulos, I., Partozis, A., Karystinakis, K. and Kotsopoulos, S. (2021). Operational function of a forecasting system providing sea characteristics and other support services on high local resolution, entitled Sealoc. *Proceedings of the 8th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference*, Thessaloniki, Greece, July 20 - 24, 2021. URL

617) Skoulikaris, C. (2021). Run-Of-River Small Hydropower Plants as Hydro-Resilience Assets against Climate Change. *Sustainability*, 13, 14001. doi:10.3390/su132414001

618) Kalantzi, G., Kotsopoulos, S., Panitsidis, K., Partozis, A. and Karystinakis, K. (2019). SeaLoc: A pilot forecasting system providing sea characteristics and other support services on high local resolution. *Proceedings of 16th International Conference on Environmental Science and Technology (CEST2019)*, Rhodes, Greece, 4 - 7 September 2019. URL

619) Kokkos N. (2017). *Environmental management and simulation of coastal water systems of the Thracian Sea*. PhD Thesis, DUTh, doi:10.12681/eadd/42341

C.1.18.

620) Manara E. (2025). *Process of defining the foreshore, beach, and the old foreshore: evaluation of individual stages with emphasis on the tools available to public sector engineers*. MSc Thesis, Quality Management and Technology, HOU. https://apothesis.eap.gr/archive/item/119

621) El-Geziry T.M. (2023). Sea-Level Changes, Chapter, In book: *Altimetry - Theory, Applications and Recent Advances*, IntechOpen. doi:10.5772/intechopen.111832

622) Katirtzidis A. (2015). *Coastal Areas Hazard Management of Extreme Marine Flood Phenomena*. MSc Thesis, PSP DDTE, AUTh. https://ikee.lib.auth.gr/record/281501/files/GRI-2016-15899.pdf

C.1.19.

623) Sarfaraz, M. and Pak, A., 2019. Weakly compressible SPH simulation of cnoidal waves with strong plunging breakers. *Ocean Dynamics*, pp.1-22. doi:10.1007/s10236-019-01266-2

624) Klonaris G. (Κλωνάρης Γ.) (2016). *Μορφοδυναμική ακτής με ύφαλους κυματοθραύστες - Morphodynamics in a beach with submerged breakwaters*. PhD Thesis, NTUA, School of Civil Engineering. URL

C.1.20.

625) Klonaris, G. T., Memos, C. D., Drønen, N. K., & Deigaard, R. (2018). Simulating 2DH coastal morphodynamics with a Boussinesq-type model. *Coastal Engineering Journal*, 1-21. doi:10.1080/21664250.2018.1462300

626) Klonaris, G.T., Memos, C.D., Drønen, N.K. and Deigaard, R. (2017). Boussinesq-Type Modeling of Sediment Transport and Coastal Morphology. *Coastal Engineering Journal*, 59(01), 1750007. doi:10.1142/S0578563417500073

627) Klonaris, G.T., Memos, C.D. and Drønen, N.K. (2016). High-Order Boussinesq-Type Model for Integrated Nearshore Dynamics. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 04016010. doi:10.1061/(ASCE)WW.1943-5460.0000349

628) Klonaris G. (Κλωνάρης Γ.) (2016). *Μορφοδυναμική ακτής με ύφαλους κυματοθραύστες - Morphodynamics in a beach with submerged breakwaters*. PhD Thesis, NTUA, School of Civil Engineering. URL

C.1.21.

629) Manara E. (2025). *Process of defining the foreshore, beach, and the old foreshore: evaluation of individual stages with emphasis on the tools available to public sector engineers*. MSc Thesis, Quality Management and Technology, HOU. https://apothesis.eap.gr/archive/item/119

630) Poulos SE, Petrakis S, Karditsa A, Koumpou S-V, Kapsimalis V. (2025). Factors Controlling the Formation and Evolution of the Beach Zone in a Semi-Enclosed Tideless Embayment: The Case of the North Coast of the Messiniakos Gulf (Eastern Mediterranean). *Journal of Marine Science and Engineering*. 13(9):1810. https://doi.org/10.3390/jmse13091810

631) Donas A, Galanis G, Pytharoulis I, Famelis IT (2025). A Modified Kalman Filter Based on Radial Basis Function Neural Networks for the Improvement of Numerical Weather Prediction Models. *Atmosphere*. 16(3):248. https://doi.org/10.3390/atmos16030248

632) Theodoropoulos, D. (2021). *Coastal zone - Overview of natural disasters in Greece*. MSc thesis, Environmental Design of Infrastructure Projects. Hellenic Open University. https://apothesis.eap.gr/archive/item/80660

C.1.24.

633) Ainali, N.M., Bikiaris, D.N., & Lambropoulou, D.A. (2026). Microplastics Across Interconnected Aquatic Matrices: A Comparative Study of Marine, Riverine, and Wastewater Matrices in Northern Greece. *Applied Sciences*, 16(2), 772. https://doi.org/10.3390/app16020772

634) Kouvara, K., Lazou-Laskaridis, E., Xirotagarou, P., Christodoulou, D., Dimas, X., Geraga, M., ... & Papatheodorou, G. (2025). Assessing marine litter and its ecological impact on the seafloor of Thermaikos Gulf (NE Mediterranean Sea, Greece): Insights from ROV and diver surveys. *Marine Pollution Bulletin*, 217, 118109. https://doi.org/10.1016/j.marpolbul.2025.118109

635) Kaberi, H. et al. (2023). Thermaikos Gulf: An Area Under Multiple Natural and Anthropogenic Pressures. In: *The Handbook of Environmental Chemistry*. Springer, Berlin, Heidelberg. https://doi.org/10.1007/698_2023_1045

636) Kermenidou M., Frydas I.S., Moschoula E., Kousis D., Christofilos D., Karakitsios S. and Sarigiannis D. (2023). Quantification and characterization of microplastics in the Thermaic Gulf, in the North Aegean Sea. *Science of The Total Environment*, p.164299. https://doi.org/10.1016/j.scitotenv.2023.164299

637) Zapounidou, M., 2020. *Ecological water quality assessment of the coastal area of Olympiaki Akti based on phytoplankton community*. MSc Thesis, School of Economics, Business Administration & Legal Studies, MSc in Bioeconomy Law, Regulation and Management https://repository.ihu.edu.gr//xmlui/handle/11544/29666

638) Tsipas, G. (2020). Metagenomic characterization of unicellular eukaryotes in the urban Thessaloniki Bay. MSc Dissertation, International Hellenic University. URL

639) Dimarchopoulou D. (2020). *Ecosystem approach to fisheries management in the Aegean Sea*. Doctoral Dissertation, Aristotle University of Thessaloniki, Faculty of Science, School of Biology, Department of Zoology, Laboratory of Ichthyology, Thessaloniki 2020. doi:10.13140/RG.2.2.21166.23366

640) Stefanidou A. (2019). *Climate change and biodiversity loss: marine phytoplankton community tolerance to temperature and salinity stress*. Doctoral Dissertation, Aristotle University of Thessaloniki, Faculty of Science, School of Biology. URL

C.1.25.

641) Καλπύρη Μ. (2022). *Μαθηματική προσομοίωση παράκτιας κατάκλυσης της παράκτιας ζώνης του Ρεθύμνου Κρήτης.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. URL

642) Nikolic, Ž., Srzic, V., Lovrinovic, I., Perkovic, T., Šolic, P., Kekez, T. (2022). Coastal Flooding Assessment Induced by Barometric Pressure, Wind-Generated Waves and Tidal-Induced Oscillations: Kaštela Bay Real-Time Early Warning System Mobile Application. *Applied Sciences*. 12, 12776. https://doi.org/10.3390/app122412776

643) Chondros, M., Metallinos, A., Papadimitriou, A., Memos, C., Tsoukala, V. (2021). A Coastal Flood Early-Warning System Based on Offshore Sea State Forecasts and Artificial Neural Networks. *J. Mar. Sci. Eng.*, 9, 1272. doi.:10.3390/jmse9111272

C.1.26.

644) Re A., Minola L., Pezzoli A. (2025). Modelling and Mapping Rapid-Onset Coastal Flooding: A Systematic Literature Review. *Water*. 17(4):599. https://doi.org/10.3390/w17040599

645) Fu C, Li T, Cheng K, Gao Y. (2024). Inundation Hazard Assessment in a Chinese Lagoon Area under the Influence of Extreme Storm Surge. *Water*, 16(14):1967. https://doi.org/10.3390/w16141967

646) Hamzah F.M. (2020). A Statistical modelling approach on tidal analysis and forecasting. *International Journal of Advanced Trends in Computer Science and Engineering*, Vol. 9, No. 1.2 doi:10.30534/ijatcse/2020/0391.22020

C.1.28.

647) Givehki, M., Melby, J., Garcia Moreno, F., Hodgens, K., Farhadzadeh, A. (2025). Effects of Design Parameters and Sea Level Rise on Lifecycle Performance of Rubble-Mound Breakwaters: A Computational-Statistical Framework. *Coastal Engineering*, doi:10.1016/j.coastaleng.2025.104897

C.1.29.

648) Monioudi IN, Chatzistratis D, Moschopoulos K, Velegrakis AF, Polydoropoulou A, Chalazas T, Bouhouras E, Papaioannou G, Karakikes I, Thanopoulou H. (2025). Exposure of Greek Ports to Marine Flooding and Extreme Heat Under Climate Change: An Assessment. *Water*. 17(13):1897. https://doi.org/10.3390/w17131897

C.1.32.

649) Spiliopoulos, G., Kapeliaris, A. T., Patroumpas, K., Betchavas, P., Skoutas, D., Zissis, D., & Bikakis, N. Multimodal Maritime Foundation Models: Challenges and Opportunities. *IEEE Preprint.* URL

650) Antwi-Agyakwa K.T., Afenyo M.K., Angnuureng D.B. (2023). Know to Predict, Forecast to Warn: A Review of Flood Risk Prediction Tools. *Water*, 15, 427. https://doi.org/10.3390/w15030427

651) Nikolic, Ž., Srzic, V., Lovrinovic, I., Perkovic, T., Šolic, P., Kekez, T. (2022). Coastal Flooding Assessment Induced by Barometric Pressure, Wind-Generated Waves and Tidal-Induced Oscillations: Kaštela Bay Real-Time Early Warning System Mobile Application. *Applied Sciences*. 12, 12776. https://doi.org/10.3390/app122412776

652) Chondros, M., Metallinos, A., Papadimitriou, A., Memos, C., Tsoukala, V. (2021). A Coastal Flood Early-Warning System Based on Offshore Sea State Forecasts and Artificial Neural Networks. *J. Mar. Sci. Eng.*, 9, 1272. doi.:10.3390/jmse9111272

C.1.34.

653) Ghassabi Z., Karami S. (2024). Evaluating the performance of SWAN model in forecasting storm surges over the Persian Gulf and Oman Sea in a case study. doi:10.30467/NIVAR.2024.451624.1287

C.1.35.

654) Chondros MK, Metallinos AS, Papadimitriou AG (2024). Enhanced Mild-Slope Wave Model with Parallel Implementation and Artificial Neural Network Support for Simulation of Wave Disturbance and Resonance in Ports. *Journal of Marine Science and Engineering*. 12(2), 281. doi:10.3390/jmse12020281

C.1.39.

655) Kournopoulou, A., Kikaki, K., Varkitzi, I. et al. (2024). Atlas of phytoplankton phenology indices in selected Eastern Mediterranean marine ecosystems. *Scientific Reports*, 14, 9975. doi:10.1038/s41598-024-60792-2

C.1.40.

656) Borzì, A. M., Minio, V., De Plaen, R., Lecocq, T., Cannavò, F., Ciraolo, G., ... & Cannata, A. (2024). Long-term analysis of microseism during extreme weather events: Medicanes and common storms in the Mediterranean Sea. *Science of The Total Environment*, 169989. doi:10.1016/j.scitotenv.2024.169989

657) Borzì A.M., Minio V., De Plaen R., Lecocq T., Alparone S., Aronica S., Cannavò F., Capodici F., et al. (2024). Integration of microseism, wavemeter buoy, HF radar and hindcast data to analyze the Mediterranean cyclone Helios. *Ocean Science*, EGU, Vol. 20, Issue 1, pp. 1–20. https://doi.org/10.5194/os-20-1-2024

658) Kotsi, E., Vassilakis, E., Diakakis, M., Mavroulis, S., Konsolaki, A., Filis, C., Lozios, S., Lekkas, E. (2023). Using UAS-Aided Photogrammetry to Monitor and Quantify the Geomorphic Effects of Extreme Weather

Events in Tectonically Active Mass Waste-Prone Areas: The Case of Medicane Ianos. *Appl. Sci.*, 13, 812. https://doi.org/10.3390/app13020812

659) Irazoqui Apecechea M., Melet A. and Armaroli C. (2023). Towards a pan-European coastal flood awareness system: Skill of extreme sea-level forecasts from the Copernicus Marine Service. *Front. Mar. Sci.* 9:1091844. doi:10.3389/fmars.2022.1091844

660) Diakakis, M., Mavroulis, S., Filis, C., Lozios, S., Vassilakis, E., Naoum, G., Soukis, K., Konsolaki, A., Kotsi, E., Theodorakatou, D., Skourtsos, E., …, Lekkas E. (2023). Impacts of Medicanes on Geomorphology and Infrastructure in the Eastern Mediterranean, the Case of Medicane Ianos and the Ionian Islands in Western Greece. *Water*, *15*(6), p.1026. https://doi.org/10.3390/w15061026

C.1.46.

661) Poulos, S.E. (2025). Mediterranean Sea: An overview of the spatial distribution of surficial sediment in relation to their origin, seabed relief and water circulation patterns. *Continental Shelf Research*, Vol. 290,105449. https://doi.org/10.1016/j.csr.2025.105449

C.1.48.

662) Sarkar, N., Rizzo, A., Vandelli, V. et al. (2026). Multi-risk assessment in the NW coast of the Island of Malta (central Mediterranean Sea). *Nat Hazards* 122, 255 (2026). https://doi.org/10.1007/s11069-025-07767-2

C.1.51.

663) Islam T, Zeleke EB, Melesse AM. (2026). High-Resolution Urban Flood Susceptibility Mapping in Miami-Dade County: An AHP-Based GIS and Multi-Criteria Decision Analysis Approach. *Earth* 7(2):36. https://doi.org/10.3390/earth7020036

C.2.6.

664) Papadopoulos, N. and Gikas, V. (2023). Combined Coastal Sea Level Estimation Considering Astronomical Tide and Storm Surge Effects: Model Development and Its Application in Thermaikos Gulf, Greece. *J. Mar. Sci. Eng.*, 11, 2033. https://doi.org/10.3390/jmse11112033

665) Fernández-Montblanc, T., Vousdoukas, M.I., Mentaschi, L. and Ciavola, P. (2020). A Pan-European high resolution storm surge hindcast. *Environment International*, *135*, p.105367. doi:10.1016/j.envint.2019.105367

C.2.7.

666) Kaberi, H. et al. (2023). Thermaikos Gulf: An Area Under Multiple Natural and Anthropogenic Pressures. In: *The Handbook of Environmental Chemistry*. Springer, Berlin, Heidelberg. https://doi.org/10.1007/698_2023_1045

C.2.18.

667) Hayes, L. J. (2025). *Storm season changes in beach conditions on Virginia Key and Key Biscayne*. MSc Thesis, University of Miami. URL

D.9.

668) Manara E. (2025). *Process of defining the foreshore, beach, and the old foreshore: evaluation of individual stages with emphasis on the tools available to public sector engineers*. MSc Thesis, Quality Management and Technology, HOU. https://apothesis.eap.gr/archive/item/119

T.2.

669) Ρεπούσης Ε.Ε.Γ. (2014). *Μετάδοση Θραυόμενων Κυματισμών Επάνω Από Ύφαλους Κυματοθραύστες.* Διπλωματική Εργασία, Σχολή Πολιτικών Μηχανικών ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.5685 URL

670) Σαμλίδης Ν. (2014). *Κυματική Μετάδοση Πίσω Από Ύφαλους Κυματοθραύστες*. ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.9726 URL

671) Μαλγαρινός Ι.Ν. (2013). *Κυματική Μετάδοση Πάνω από Ύφαλο Κυματοθραύστη*. ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.12538 URL

672) Κοτσίφης Φ.Α. (2013). *Σύνθετη Προσομοίωση Κυματικής Μετάδοσης Πάνω από Ύφαλο Κυματοθραύστη.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.16623 URL

673) Κάππας Χ.Α. (2013). *Το υδροδυναμικό πεδίο γύρω από ύφαλο πορώδη κυματοθραύστη.* ΜΔΕ Διπλωματική Εργασία, ΔΠΜΣ ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.5389 URL

T.3.

674) Ρεπούσης Ε.Ε.Γ. (2016). *Διερεύνηση Υδροδυναμικού Πεδίου Σε Ύφαλους Διαπερατούς Κυματοθραύστες.* ΜΔΕ Διπλωματική Εργασία, ΕΜΠ, Αθήνα. http://dx.doi.org/10.26240/heal.ntua.5268 URL