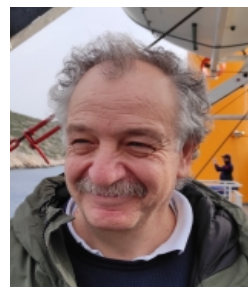


# Vassilis Zervakis



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## Education

- 1987 B.Sc. in Physics, Physics Department, University of Athens
- 1993 Ph.D. in Physical Oceanography, College of Oceanic and Atmospheric Sciences, Oregon State University, U.S.A.

## Professional Experience

- April 2016-today: Professor at the Department of Marine Sciences, University of the Aegean
- 2010-April 2016: Associate Professor at the Department of Marine Sciences, University of the Aegean
- 2004-2009: Assistant Professor at the Department of Marine Sciences, University of the Aegean
- 1996-2004: Research Associate at the Institute of Oceanography, Hellenic Centre for Marine Research, Greece
- 1995-1996: Post-doctoral researcher at AINCO-Interocean, Madrid, Spain
- 1994-1995: Performed research and teaching during my military service at the Hellenic Navy.
- 1987-1993: Graduate Research Assistant at College of Oceanic and Atmospheric Sciences, Oregon State University, U.S.A.
- 1986-1987: Research Assistant at the Hellenic Centre for Marine Research, Greece.

## Administrative Experience

- 2017 - 2020: Head of Department of Marine Sciences of the University of the Aegean
- 2016 - 2018: Representative of the University of the Aegean at the General Assembly of the Hellenic Institution for Research and Innovation
- 2016 - 2021: member of the Scientific Council for Research and Innovation of the Region of the North Aegean
- 2016 - today: director of the Laboratory of Physical and Chemical Oceanography of the Department of Marine Sciences of the University of the Aegean
- 2013 - 2016: Member of the Board of Directors of the University of the Aegean
- 2012 - 2016: President of the Internal Evaluation Group of the Department of Marine Sciences of the University of the Aegean

- 2011 – 2013: Vice-President of the Department of Marine Sciences of the University of the Aegean

## Scientific Interests

- Small scale processes (internal waves and turbulence)
- Atmosphere-ocean exchanges and thermohaline circulation
- Coastal dynamics through High-Frequency radar observations
- Lagrangian Instruments and Techniques
- Physical – biological interactions

## Participation in Research Programmes

1. POEM (Physical Oceanography of the Eastern Mediterranean), 1986-1987.
2. Project OCEAN-STORMS, funded by the U.S. Government through the Office of Naval Research, 1987-1993.
3. Project TIWE (Tropical Instability Wave Experiment), funded by the U.S. Government through the National Science Foundation, 1992-1993.
4. Project Eurofloat, funded by the European Commission through the MAST II programme, 1995-1996.
5. Project CINCS (Pelagic-Benthic Coupling in the oligotrophic Cretan Sea), funded by the European Commission through the MAST II programme, 1995-1996.
6. INTERPOL. (EVK3-2000-00023): Impact of Natural and Trawling Events on Resuspension, Dispersion and fate of Pollutants
7. Infrastructure Development for the Monitoring of Inter-Regional Pollution in the North Aegean. (project funded by the INTERREG-I Programme), 1996-1998.
8. Project MTP-II MATER (Mass Transfer and Ecosystem Response), funded by European Commission through the programme MAST-III.
9. Project ICAMS (Integrated Coastal Analysis and Monitoring System), funded by European Commission through the programme “Environment”, 1997-1999.
10. Project KEYCOP (Key Coastal Processes), funded by European Commission through the programme MAST-III.
11. Project MFSPP - VOS (Mediterranean Forecasting System Pilot Project - Voluntary Observing Ships), funded by European Commission through the programme MAST-III.
12. Projects POSEIDON and POSEIDON-II, funded by the Financial Mechanism of the European Economic Area (EFTA) and by the Greek Government.
13. Project ADIOS (Atmospheric Deposition and Impact of pollutants, key elements and nutrients on the Open Mediterranean Sea), funded by the European Commission through Framework Programme 5.
14. Interactions and exchange between the Aegean and Black Seas: Bilateral Greek -Ukrainian project, funded by the corresponding governments.
15. Project TELEFOS (Telephonically tracked floats for Oceanographic Studies), funded by the Greek Government and the private sector.
16. Southern European Seas: Assessing and Modelling Ecosystem changes (SESAME), funded by the 6<sup>th</sup> FP (6.3: Climate Change and Ecosystems)
17. Project FACTS (Fluxes in the Aegean of Carbon and Thorium Study), funded in common by the U.S. National Science Foundation and the Hellenic Centre for Marine Research.
18. Project “Internal Waves in the Aegean Sea”, funded in common by the U.S. Office of Naval Research and the Hellenic Centre for Marine Research.
19. Prevention and Management of sea-originated Risks to the Coastal Zone (CORI), funded by INTERREG III B ARCHIMED.

20. Project IASON (International Action for the Sustainability of the Mediterranean and the Black Sea), funded by the European Commission through F.P.6.
21. Project AQUAPLANNER (Aquaculture Environmental Assessment System), funded through the programme INTERREG-III A Greece - Cyprus.
22. Project DIAVLOS (Development and application of coastal oil pollution management tools in the region of installation of the Burgas-Alexandroupolis oil-pipe), funded by the 3rd European Support Framework.
23. Pelagic Fish Distribution and Marine Environment in Greek Waters (FISHSAT), funded by the 2<sup>nd</sup> Programme on Operational Fisheries 2000-2006.
24. European Science Foundation Program: Mediterranean Climate Variability and Predictability (ESF-MedCliVar), funded by member-organizations.
25. Decadal scale Variability of the Mediterranean Ecosystem (MedEcos). MarinERA funded project.
26. Inter-basin exchange in the changing Mediterranean Sea: Impact on the ecosystems in the vicinity of the Straits connecting the Mediterranean Sea with the adjacent Basins. (MedEX). MarinERA funded project.
27. European Multidisciplinary Seafloor Observation-Hellenic node (EMSO-HELLAS), funded by the European Roadmap of Research Infrastructures, by ESFRI-European Strategic Forum For Research Infrastructures.
28. Greek infrastructure for the autonomous ocean observing system ARGO (ARGO), funded by the European Roadmap of Research Infrastructures, by ESFRI-European Strategic Forum For Research Infrastructures.
29. Tracking Oil Spills and Coastal Awareness Network (TOSCA), funded by MED, Objective 2.3: Maritime risks prevention and strengthening of maritime safety.
30. "Analysis of float observations" Subcontracting to the Hellenic Centre for Marine Research in the framework of the project "Greek Infrastructure of autonomous ARGO floats for ocean observations - ARGO"
31. Specifically Targeted for Radars INnovative Gauge (STRING), funded by the Hellenic and French Governments in the framework of the bilateral projects 2013 'Plato'.
32. Hellenic Integrated Monitoring, Innovation and Operational Forecasting of Seas and Internal Waters (HIMIOFoTS), 2017-2020
33. Pilot Oceanography System for monitoring the Gulf of Kalloni (Kalloni Archetype), 2018-2019
34. Infrastructure development to support Blue Growth in the North Aegean: Coastal Environment Observatory AEGIS, 2018-2020
35. Evaluation, control and Mitigation of the EnviRonmental impacts of shippinG Emissions. Horizon 2020, Institutional Coordinator
36. «Coastal Environmental Observatory and Risk Management in Island regions (AEGIS+)», Coordinator
37. «National Network for Climate Change and its impacts - Climact», 2023-2025
38. «Green Shipping-NavGreen», 2023-2025.

## **Publications in peer-reviewed scientific journals**

**Zervakis, V.**, Kolovoyiannis, V., Calgaro, L., Giubilato, E., Marcomini, A., Mazioti, A.-A., Ferrarin, C., Majamäki, E., Potiris, M., Krasakopoulou, E., Tragou, E., Kukkonen, J., Jalkanen, J.-P., 2025. A novel method to assess the dilution of complex mixtures in the marine environment: Application to marine scrubber water effluents. *Marine Pollution Bulletin* 216, 117956.  
<https://doi.org/10.1016/j.marpolbul.2025.117956>

- Aghito, M., Majamäki, E., Hänninen, R., Lunde Hermansson, A., Hassellöv, I.-M., Ytreberg, E., Kolovoyiannis, V., **Zervakis, V.**, Granberg, M., Moldanová, J., Dagestad, K.-F., Breivik, Ø., Hole, L. R., Jalkanen, J.,-P., 2025. Projected changes of the emission and transport of organic pollutants and metals from shipping in European seas 2018–2050. *Marine Pollution Bulletin*, 211, 117351. <https://doi.org/10.1016/j.marpolbul.2024.117351>.
- Potiris, M.; Mamoutos, I.G.; Tragou, E.; **Zervakis, V.**; Kassis, D.; Ballas, D., 2024. Dense Water Formation Variability in the Aegean Sea from 1947 to 2023. *Oceans*, 2024, 5(3), 611-636. <https://www.mdpi.com/2673-1924/5/3/35>
- Mamoutos, I. G., Potiris, E., Androulidakis, Y., Tragou, E., & **Zervakis, V.**, 2024. Evidence for reduced Black Sea water outflow to the North Aegean. *Earth and Space Science*, 11, e2024EA003674. <https://doi.org/10.1029/2024EA003674>
- Kontoyiannis, H., Pratt, L.J., **Zervakis, V.**, Alford, M.H., Sofianos, S., Theocharis, A., 2024. Current and density observations on a flow through a contraction and over a bottom elevation at the southern edge of the Cycladic Plateau in the Aegean Sea – East Mediterranean. *Dynamics of Atmospheres and Oceans*, 106, 101460. <https://doi.org/10.1016/j.dynatmoce.2024.101460> .
- Mazioti, A.A., Kolovoyiannis, V., Krasakopoulou, E., Tragou, E., Zervakis, V., Assimakopoulou, G., Athiniotis, A., Paraskevopoulou, V., Pavlidou, A., Zeri, C., 2024. Implementation of a Far-Field Water Quality Model for the Simulation of Trace Elements in an Eastern Mediterranean Coastal Embayment Receiving High Anthropogenic Pressure. *Journal of Marine Science and Engineering*; 12(5):797. <https://doi.org/10.3390/jmse12050797>
- Potiris, M., Mamoutos, I.G., Tragou, E., Zervakis, V., Kassis D, Ballas D., 2024. Dense Water Formation in the North-Central Aegean Sea during Winter 2021–2022. *Journal of Marine Science and Engineering*; 12(2):221. <https://doi.org/10.3390/jmse12/2/221>
- Tsabaris, C.; Zervakis, V.; Saitanis, S.; Patiris, D.; Pappa, F.K.; Velegrakis, A.; Alexakis, S.; Kioroglou, S., 2023. In Situ Radioactivity Measurements and Water Flow Characteristics of a Thermal Spring in Gera Gulf, Lesvos Island, Greece. *J. Mar. Sci. Eng.*, 11, 801. <https://doi.org/10.3390/jmse11040801>
- Petalas, S.; Tragou, E.; Mamoutos, I.G.; Zervakis, V., 2022. Simulating the Interconnected Eastern Mediterranean–Black Sea System on Climatic Timescales: A 30-Year Realistic Hindcast. *J. Mar. Sci. Eng.*, 10, 1786. <https://doi.org/10.3390/jmse10111786>
- Leivadaros, P.; Tsabaris, C.; Patiris, D.L.; Eleftheriou, G.; Pappa, F.K.; Androulakaki, E.; Dasenakis, M.; Krasakopoulou, E.; Zervakis, V., 2022. Recent 137Cs Distribution in the Aegean Sea, Greece. *J. Mar. Sci. Eng.*, 10, 1719. <https://doi.org/10.3390/jmse10111719>
- Mamoutos, I.; Potiris, E.; Tragou, E.; Zervakis, V.; Petalas, S., 2021. A High-Resolution Numerical Model of the North Aegean Sea aimed at Climatological Studies. *Journal of Marine Science and Engineering*, 9(12), 1463; <https://doi.org/10.3390/jmse9121463>.
- Petalas, S., Mamoutos, I., Dimitrakopoulos, A.-A., Sampatakaki, A., and Zervakis, V., 2020. Developing a Pilot Operational Oceanography System for an Enclosed Basin. *J. Mar. Sci. Eng.*, 8, 336, <https://www.mdpi.com/2077-1312/8/5/336>

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- Tsabaris, C., Kaberi, H., Pappa, F.K., Leivadaros, P., Delfanti, R., Krasakopoulou, E., Zervakis, V., 2019. Vertical distribution and temporal trends of  $^{137}\text{Cs}$  at Lemnos and Cretan deep basins of the Aegean Sea, Greece. *Deep Sea Research Part II: Topical Studies in Oceanography*, 104603, <https://doi.org/10.1016/j.dsr2.2019.06.011>.
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- Mamoutos, I., Zervakis, V., Tragou, E., Karydis, M., Frangoulis, C., Kolovoyiannis, V., Georgopoulos, D., Psarra, S., 2017. The role of wind-forced coastal upwelling on the thermohaline functioning of the North Aegean Sea. *Cont. Shelf Res.*, 149, 52-68.
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