

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 - today: 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 MFSP – 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 6th 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 2nd 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 shippingG Emissions. Horizon 2020, Institutional Coordinator
36. «Coastal Environmental Observatory and Risk Management in Island regions (AEGIS+)», Coordinator

Publications in peer-reviewed scientific journals

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>.

- Sampatakaki, A., Zervakis, V., Mamoutos, I., Tragou, E., Gogou, A., Triantaphyllou, M., Skliris, N., 2021. Investigation of the Mediterranean Sea's inherent variability under contrasting extreme climatic conditions. *Frontiers in Marine Science*, <https://www.frontiersin.org/articles/10.3389/fmars.2021.656737/abstract>
- Chaniotaki, M., Kolovoyiannis, V., Tragou, E., Herold, L.A., Batjakas, I.E., Zervakis, V., 2021. Investigation of the response of the Aegean Sea to the Etesian wind forcing. *Continental Shelf Research*, 225, 104485. <https://doi.org/10.1016/j.csr.2021.104485>.
- 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>
- Zervakis, V., Krauzig, N., Tragou, E., Kunze, E., 2019. Estimating vertical mixing in the deep north Aegean Sea using argo data corrected for conductivity sensor drift. *Deep Sea Research Part I: Oceanographic Research Papers*, 154, 103144, <https://doi.org/10.1016/j.dsr.2019.103144>.
- Tsabarlis, C., Kaberi, H., Pappa, F.K., Leivadarios, P., Delfanti, R., Krasakopoulou, E., Zervakis, V., 2019. Vertical distribution and temporal trends of ^{137}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>.
- Potiris, M., Frangoulis, C., Kalampokis, A., Ntoumas, M., Pettas, M., Petihakis, G., and Zervakis, V., 2018. ADCP observations of migration patterns of zooplankton in the Cretan Sea. *Ocean Science*, 2, 783-800. [doi:10.5194/os-14-783-2018](https://doi.org/10.5194/os-14-783-2018).
- 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.
- Kokkini, Z., Zervakis, V., Mamoutos, I., Potiris, E., Frangoulis, C., Kioroglou, S., Maderich, V., Psarra, S., 2017. Quantification of the surface mixed-layer lateral transports via the use of a HF radar: Application in the North-East Aegean Sea. *Cont. Shelf Res.*, 149, 17-31. [doi:10.1016/j.csr.2017.04.006](https://doi.org/10.1016/j.csr.2017.04.006)
- Rubio, A., Mader, J., Corgnati, L., Mantovani, C., Griffo, A., Novellino, A., Quentin, C., Wyatt, L., Schulz-stellenfleth, J., Lorente, P., Zambianchi, E., Hartnett, M., Fernandes, C., Zervakis, V., Goringe, P., Melet, A., Puillat, I., 2017. HF Radar Activity in European Coastal Seas: Next Steps Towards a Pan-European HF Radar Network. *Front. Mar. Sci.* 4, 1-20. [doi:10.3389/fmars.2017.00008](https://doi.org/10.3389/fmars.2017.00008)
- Zervakis, V., Kokkini, Z., Potiris, E., 2017. Estimating Mixed Layer Depth with the use of a coastal High-Frequency radar. *Cont. Shelf Res.*, 149, 4-16. [doi:10.1016/j.csr.2016.07.008](https://doi.org/10.1016/j.csr.2016.07.008)
- Triantaphyllou, M. V., Gogou, A., Dimiza, M.D., Kostopoulou, S., Parinos, C., Roussakis, G., Geraga, M., Bouloubassi, I., Fleitmann, D., Zervakis, V., Velaoras, D., Diamantopoulou, A., Sampatakaki, A., Lykousis, V., 2016. Holocene Climatic Optimum centennial-scale paleoceanography in the NE

Aegean (Mediterranean Sea). *Geo-Marine Lett.* 36, 51-66.
doi:10.1007/s00367-015-0426-2

- Bellomo, L., A. Griffa, S. Cosoli, P. Falco, R. Gerin, I. Iermano, A. Kalampokis, Z. Kokkini, A. Lana, M. G. Magaldi, I. Mamoutos, C. Mantovani, J. Marmain, E. Potiris, J. M. Sayol, Y. Barbin, M. Berta, M. Borghini, A. Bussani, L. Corgnati, Q. Dagneaux, J. Gaggelli, P. Guterman, D. Mallarino, A. Mazzoldi, A. Molcard, A. Orfila, P.-M. Poulain, C. Quentin, J. Tintoré, M. Uttieri, A. Vetrano, E. Zambianchi, V. Zervakis, 2015. Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. *Journal of Operational Oceanography*, 10.1080/1755876X.2015.1087184.
- Kokkini, Z., M. Potiris, A. Kalampokis, V. Zervakis, 2014. HF Radar observations of the Dardanelles outflow current in the North Eastern Aegean using validated WERA HF radar data. *Mediterranean Marine Science*, 15, 4, Special Issue, pp. 753-768. DOI: <http://dx.doi.org/10.12681/mms.938>
- Tsabaris, C., V. Zervakis, H. Kaberi, R. Delfanti, D. Georgopoulos, M. Lampropoulou, C.A. Kalfas, 2014. ^{137}Cs vertical distribution at the deep basins of the North and Central Aegean Sea, Greece. *Journal of Environmental Radioactivity*, 132, pp. 47-56.
- Kioroglou, S., Tragou, E., Zervakis, V., Georgopoulos, D., Barak, H., Gertman, I., Kovacevic V., Ozsoy E., Tutsak E., 2013. Vertical diffusion processes in the Eastern Mediterranean – Black Sea System. *Journal of Marine Systems*, In Press, Accepted Manuscript, Available online 16 October 2013.
- Kioroglou S, Tragou E, Zervakis V, 2013. Assessing shelf mixing using CTD, ADCP, and free falling shear probe turbulence data. *Continental Shelf Research*, 69, pp. 73-87.
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- Zervakis, V., M. Ktistakis and D. Georgopoulos, 2005: TELEFOS: A new design for coastal drifters. *Sea Technology*, 46, 2, pp. 25-30.
- Estournel, C., V. Zervakis, P. Marsaleix, A. Papadopoulos, F. Auclair, L. Perivoliotis and E. Tragou, 2005: Dense water formation and cascading in the Gulf of Thermaikos (North Aegean): implications on sediment transport. *Continental Shelf Research*, 25, pp. 2366-2386.
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- Zervakis, V., A.P. Karageorgis, H. Kontoyiannis, V., Papadopoulos and V. Lykousis, 2005: Hydrology, circulation and distribution of particulate matter in the Thermaikos Gulf (NW Aegean Sea) during September-October 2001 and February 2002. *Continental Shelf Research*, 25, pp. 2332-2349.
- Zervakis, V., D. Georgopoulos, A. Karageorgis and A. Theocharis, 2004: On the response of the Aegean Sea to climatic variability: A review. *International Journal of Climatology*, 24, pp. 1845-1858.
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hydrography, in the mesotrophic Skagerrak and the oligotrophic northeastern Aegean Sea. *Continental Shelf Research*, 23, pp. 1787-1809.

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- Zervakis, V., and M. D. Levine, 1995: Near Inertial Energy Propagation From the Mixed Layer: Theoretical Considerations. Journal of Physical Oceanography, 25, pp. 2872 - 2889.

Chapters in books

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Zervakis, V., A. Theocharis and D. Georgopoulos, 2005: Circulation and Hydrography of the Open Seas. In *"State of the Hellenic Marine Environment"*, E. Papathanassiou and A. Zenetos (eds.), HCMR Publications, Athens 2005, ISBN 960-86651-8-3, pp. 104-110.

Michael N. Tsimplis, Vassilis Zervakis, Simon A. Josey, Elissaveta L. Peneva, Maria Vittoria Struglia, Emil V. Stanev, Alex Theocharis, Piero Lionello, Paola Malanotte-Rizzoli, Vincenzo Artale, Elina Tragou, Temel Oguz, Chapter 4 Changes in the oceanography of the Mediterranean Sea and their link to climate variability, In: P. Lionello, P. Malanotte-Rizzoli and R. Boscolo, Editor(s), *Developments in Earth and Environmental Sciences*, Elsevier, 2006, Volume 4, Pages 227-282, ISSN 1571-9197, ISBN 9780444521705, [http://dx.doi.org/10.1016/S1571-9197\(06\)80007-8](http://dx.doi.org/10.1016/S1571-9197(06)80007-8).

Vassilis Zervakis, Kostas Nittis, Leonidas Perivoliotis, Christos Tziavos, George Papadoniou, XBT observations in the Eastern Mediterranean: data analysis and assessment of numerical ocean forecasts, In: H. Dahlin, N.C. Flemming, K. Nittis and S.E. Petersson, Editor(s), *Elsevier Oceanography Series*, Elsevier, 2003, Volume 69, Pages 105-108, ISSN 0422-9894, ISBN 9780444515506, [http://dx.doi.org/10.1016/S0422-9894\(03\)80018-1](http://dx.doi.org/10.1016/S0422-9894(03)80018-1).