



# Sarantis Sofianos

## Curriculum Vitae



Associate Professor  
Department of Physics  
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### Professional history:

2020 – today Associate Professor, Department of Physics, National and Kapodistrian University of Athens, Greece

2019 – today Institute of Applied and Computational Mathematics, Foundation for Research and Technology, Greece

2015 – 2020 Assistant Professor, Department of Physics, National and Kapodistrian University of Athens, Greece

2009 – 2015 Lecturer, Department of Physics, National and Kapodistrian University of Athens, Greece

1995 - 2000 Research Assistant, University of Miami, USA

1994 – 1995 Research Assistant, Department of Physics, National and Kapodistrian University of Athens, Greece

### Education:

BSc in Physics, Department of Physics, National and Kapodistrian University of Athens, Greece

PhD in Meteorology and Physical Oceanography, **University of Miami**, USA. Title: ***"Circulation and Water Mass Formation in the Red Sea, and the Exchange with the Indian Ocean"***. Supervisor: Professor W. E. Johns.

**Research  
Publications**

<b>Publications in peer reviewed international journals and books</b>	
1	Sofianos S. S. and W. E. Johns, 2001: Wind induced sea level variability in the Red Sea, <i>Geophysical Research Letters</i> , 28, 3175-3178.
2	Sofianos S. S., W. E. Johns, and S. P. Murray, 2002: Heat and freshwater budgets in the Red Sea from direct observations at Bab el Mandeb, <i>Deep Sea Research II</i> , 49, 1323-1340.
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4	S. S. Sofianos and W. E. Johns, 2003: An Oceanic General Circulation Model (OGCM) investigation of the Red Sea circulation. Part II.: The three-dimensional circulation in the Red Sea. <i>Journal of Geophysical Research</i> , 108, 3066, doi: 10.1029/2001JC001185.
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7	Lascaratos A., S. Sofianos, A. Theocharis and M. Tsimplis, 2005: Long term water masses: time scales, in “State of the Hellenic Marine Environment”, Eds. V. Papathanasiou and A. Zenetos, <i>HCMR Publ.</i> , 360 pp, ISBN: 960-86651-8-3.
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10	Sofianos S. S. and W. E. Johns, 2007: Observations of the summer Red Sea circulation, <i>Journal of Geophysical Research</i> , VOL. 112, C06025, doi:10.1029 - 2006JC003886.
11	Zodiatis, G., R. Lardner, D. Hayes, G. Georgiou, S. Sofianos, N. Skliris, A. Lascaratos, 2008: Operational ocean forecasting in the Eastern Mediterranean: implementation and evaluation, <i>Ocean Science</i> , 4, 31-47.

12	Skliris, N., A. Mantziafou, S. Sofianos, and A. Gkanasos, 2010: Satellite-derived variability of the Aegean Sea ecohydrodynamics, <i>Continental Shelf Research</i> , 30 (5), pp. 403-418.
13	Tzali, M., S. Sofianos, A. Mantziafou and N. Skliris, 2010: Modelling the impact of Black Sea water inflow on the North Aegean Sea hydrodynamics, <i>Ocean Dynamics</i> , DOI: 10.1007/s10236-010-0277-3.
14	Skliris, N., S. Sofianos, A. Gkanasos, A. Mantziafou, V. Vervatis, P. Axaopoulos, A. Lascaratos, 2011: Decadal scale variability of sea surface temperature in the Mediterranean Sea in relation to atmospheric variability, <i>Ocean Dynamics</i> , DOI 10.1007/s10236-011-0493-5.
15	Vervatis, V. D., S. Sofianos, and A. Theocharis, 2011: Distribution of the thermohaline characteristics in the Aegean Sea related to water mass formation processes (2005-2006 winter surveys), <i>J. Geophys. Res.</i> , doi:10.1029/2010JC006868.
16	Skliris, N., S. S. Sofianos, A. Gkanasos, P. Axaopoulos, A. Mantziafou, V. Vervatis, 2011: Long-term sea surface temperature variability in the Aegean Sea, <i>Advances in Oceanography and Limnology</i> , 2:2, 125-139.
17	Zafirakou-Koulouris A., C. Koutitas, S. Sofianos, A. Mantziafou, M. Tzali and S. C. Dermissi, 2012, Oil Spill Dispersion Forecasting with the aid of a 3D Simulation Model, <i>Journal of Physical Science and Application</i> , 2012, 10, 448-453.
18	Tonani, M., J. A. U. Nilsson, V. Lyubartsev, A. Grandi, A. Aydogdu, J. Azzopardi, G. Bolzon, A. Bruschi, A. Drago, T. Garau, J. Gatti, I. Gertman, R. Goldman, D. Hayes, G. Korres, P. Lorente, V. Malacic, A. Mantziafou, G. Nardone, A. Olita, E. Ozsoy, I. Pairaud, S. Pensieri, L. Perivoliotis, B. Petelin, M. Ravaoli, L. Renault, S. Sofianos, M. G. Sotillo, A. Teruzzi, and G. Zodiatis, 2012: Operational evaluation of the Mediterranean Monitoring and Forecasting Centre products: implementation and results, <i>Ocean Sci. Discuss.</i> , 9, 1813–1851, doi:10.5194/osd-9-1813-2012.
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23	Malanotte-Rizzoli P., V. Artale, G. L. Borzelli-Eusebi, S. Brenner <sup>4</sup> , G. Civitarese, A. Crise, J. Font, M. Gacic, N. Kress, S. Marullo, E. Ozsoy, M. Ribera d'Alcalà, W. Roether, K. Schroeder, S. Sofianos, T. Tanhua, A. Theocharis, M. Alvarez, Y. Ashkenazy, A. Bergamasco, V. Cardin, S. Carniel, F. D'Ortenzio, E. Garcia-Ladona, J. M. Garcia-Lafuente, A. Gogou, M. Gregoire, D. Hainbucher, H. Kontoyannis, V. Kovacevic, E. Krasakapoulou, G. Krokos, A. Incarbona, M. G. Mazzocchi, M. Orlic, A. Pascual, P.-M. Poulain, A. Rubino, J. Siokou-Frangou, E. Souvermezoglou, M. Sprovieri, I. Taupier-Letage, J. Tintoré, and G. Triantafyllou, 2014: Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research, <i>Ocean Science</i> , 10, 281-322, doi: 10.5194/os-10-281-2014.
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41	Xie, J., G. Krokos, S. Sofianos and I. Hoteit, 2019, Interannual Variability of the Exchange Flow Through the Strait of Bab-al-Mandeb, <i>J. Geophys. Res.: Oceans</i> , 124. <a href="https://doi.org/10.1029/2018JC014478">https://doi.org/10.1029/2018JC014478</a>
42	Gkanasos, A., S. Somarakis, K. Tsiaras, D. Kleftogiannis, M. Giannoulaki, E. Schismenou, S. Sofianos, G. Triantafyllou, 2019: Development, application and evaluation of a 1-D full life cycle anchovy and sardine model for the North Aegean Sea (Eastern Mediterranean), <i>PLoS ONE</i> 14(8): e0219671. <a href="https://doi.org/10.1371/journal.pone.0219671">https://doi.org/10.1371/journal.pone.0219671</a>
43	Tintore, J., Pinardi N., Álvarez-Fanjul E., Aguiar E., Álvarez-Berastegui D., Bajo M., Balbin R., Bozzano R., Nardelli B.B., Cardin V., Casas B., Charcos-Llorens M., Chiggiato J., Clementi E., Coppini G., Coppola L., Cossarini G., Deidun A., Deudero S., D’Ortenzio F., Drago A., Drudi M., El Serafy G., Escudier R., Farcy P., Federico I., Fernández J.G., Ferrarin C., Fossi C., Frangoulis C., Galgani F., Gana S., García Lafuente J., Sotillo M.G., Garreau P., Gertman I., Gómez-Pujol L., Grandi A., Hayes D., Hernández-Lasheras J., Herut B., Heslop E., Hilmi K., Juza M., Kallos G., Korres G., Lecci R., Lazzari P., Lorente P., Liubartseva S., Louanchi F., Malacic V., Mannarini G., March D., Marullo S., Mauri E., Meszaros L., Mourre B., Mortier L., Muñoz-Mas C., Novellino A., Obaton D., Orfila A., Pascual A., Pensieri S., Pérez Gómez B., Pérez Rubio S., Perivoliotis L., Petihakis G., de la Villéon L.P., Pistoia J., Poulain P.-M., Pouliquen S., Prieto L., Raimbault P., Reglero P., Reyes E., Rotllan P., Ruiz S., Ruiz J., Ruiz I., Ruiz-Orejón L.F., Salihoglu B., Salon S., Sammartino S., Arcilla A.S., Sánchez-Román A., Sannino G., Santoleri R., Sardá R., Schroeder K., Simoncelli S., Sofianos S., Sylaios G., Tanhua T., Teruzzi A., Testor P., Tezcan D., Torner M., Trotta F., Umgiesser G., von Schuckmann K., Verri G., Vilibic I., Yucel M., Zavatarelli M. and Zodiatis G., 2019: Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea, <i>Front. Mar. Sci.</i> , 6:568. doi: 10.3389/fmars.2019.00568.
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45	Asfahani, K., G. Krokos, V. Papadopoulos, B. H. Jones, S. Sofianos, M. Kheireddine and I. Hoteit, 2020: Capturing a Mode of Intermediate Water Formation in the Red Sea, <i>Journal of Geophysical Research: Oceans</i> , 125, e2019JC015803, doi: <a href="https://doi.org/10.1029/2019JC015803">https://doi.org/10.1029/2019JC015803</a> .

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47	Stamataki N., Y. Hatzonikolakis, K. Tsiaras, C. Tsangaris, G. Petihakis, S. Sofianos, and G. Triantafyllou, 2020: Modelling mussel ( <i>Mytilus</i> spp.) microplastic accumulation, <i>Ocean Science</i> , 16, 927-949, doi: <a href="https://doi.org/10.5194/os-16-927-2020">https://doi.org/10.5194/os-16-927-2020</a>
48	Karagiorgos J., V. Vervatis and S. Sofianos, 2020: The impact of Tides on the Bay of Biscay Dynamics, <i>J. Mar. Sci. Eng.</i> , 8, 617, doi: <a href="https://doi.org/10.3390/jmse8080617">https://doi.org/10.3390/jmse8080617</a>
49	Hoteit I., Y. Abualnaja, S. Afzal, B. Ait-El-Fquih, T. Akylas, C. Antony, C. Dawson, K. Asfahani, R. J. Brewin, L. Cavaleri, I. Cerovecki, B. Cornuelle, S. Desamsetti, R. Attada, H. Dasari, J. Sanchez-Garrido, L. Genevier, M. El Gharamti, J. A. Gittings, E. Gokul, G. Gopalakrishnan, D. Guo, B. Hadri, M. Hadwiger, M. Abed Hammoud, M. Hendershott, M. Hittawe, A. Karumuri, O. Knio, A. Köhl, S. Kortas, G. Krokos, R. Kunchala, L. Issa, I. Lakkis, S. Langodan, P. Lermusiaux, T. Luong, J. Ma, O. Le Maitre, M. Mazloff, S. El Mohtar, V. P. Papadopoulos, T. Platt, L. Pratt, N. Raboudi, M.-F. Racault, D. E. Raitos, S. Razak, S. Sanikommu, S. Sathyendranath, S. Sofianos, A. Subramanian, R. Sun, E. Titi, H. Toye, G. Triantafyllou, K. Tsiaras, P. Vasou, Y. Viswanadhapalli, Y. Wang, F. Yao, P. Zhan and G. Zodiatis, 2020: Towards an End-to-End Analysis and Prediction System for Weather, Climate, and Marine Applications in the Red Sea, <i>Bull. Amer. Meteor. Soc.</i> 1–61, doi: <a href="https://doi.org/10.1175/BAMS-D-19-0005.1">https://doi.org/10.1175/BAMS-D-19-0005.1</a>
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51	Vervatis, V., P. De Mey-Frémaux, N. Ayoub, J. Karagiorgos, S. Ciavatta, R. J. W. Brewin, and S. Sofianos, 2020: Assessment of a physical-biogeochemical stochastic model in a high-resolution Bay of Biscay configuration. Part 2: empirical consistency, <i>Ocean Modelling</i> (Submitted)
52	Zodiatis, G., R. Lardner, K. Spanoudaki, S. Sofianos, H. Radhakrishnan, G. Coppini, S. Liubartseva, N. Kampanis, G. Krokos, I. Hoteit, J. Tintoré, T. Eremina, A. Drago, 2020: Modelling of weathering, in: “ <i>Marine Hydrocarbon Spill Assessments</i> ”, Ed. Oleg Makarynsky, Elsevier, (Submitted)

**The paper #40 was awarded the “Top downloaded paper 2018-2019” των Geophysical Research letters (Wiley, 2020)**

<b>Δημοσιεύσεις σε πρακτικά διεθνών συνεδρίων με κριτές</b>	
1	Johns W. E., S. P. Murray, and S. S. Sofianos, 1998: Atmospherically forced exchange through the strait of Bab el Mandeb, 1998 Ocean Sciences Meeting, AGU, February 1998, San Diego, California, USA.
2	Sofianos S. S. and W. E. Johns, 2000: Investigation of the seasonal exchange between the Red Sea and the Indian Ocean, a numerical model approach, 2000 Ocean Sciences Meeting, AGU, January 2000, San Antonio, Texas, USA.
3	Johns W. E. , S. S. Sofianos, and S. P. Murray, 2000: The exchange flow at Bab el Mandeb and the inferred heat and freshwater budgets of the Red Sea, April 2000, EGS XXV General Assembly, Nice, France.
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5	Johns W. E. and S. S. Sofianos, 2002: Atmospherically forced exchange through the strait of Bab el Mandeb. April 2002, Villefrance, Second ONR Straits Workshop.
6	Korres G., A. Lascaratos and S. Sofianos, 2002: Use of atmospheric forecast fields in ocean circulation and wave prediction models in Greek areas, 5 <sup>th</sup> RAMS Workshop and Related Applications. 29 Sept. – 3 Oct. 2002, Santorini, Greece.
7	Korres G., A. Lascaratos, S. Sofianos and G. Kallos, 2002: The ALERMO ocean circulation forecast system, 3rd EuroGOOS Conference, December 2002, Athens, Greece
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10	Sofianos S., N. Skliris, and A. Lascaratos, 2004: Forcing mechanisms of the Aegean Sea Circulation, CIESM 2004 Meeting, Barcelona, May 2004.
11	Lascaratos A. and S. Sofianos, 2004: Deep water mass variability in the Eastern Mediterranean, CIESM 2004 Meeting, Barcelona, May 2004.
12	Druon J-N., W. Schrimpf, S. Dobricic, E. Peneva , A. Lascaratos, S. Sofianos , P. Garreau, S. Djavidnia, 2004: Relative Contribution of the Eutrophication and Hydromorphology to Bottom Oxygen Deficiency: The case of the Mediterranean and Black Seas, CIESM 2004 Meeting, Barcelona, May 2004.



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	microplastics accumulation, 12th Panhellenic Symposium of Oceanography & Fisheries, Corfu, May/June 2018.
16	Mavropoulou A-M, Vervatis V, Nenes A, Sofianos S, 2018: Climatic trends of dissolved oxygen in the Mediterranean Sea, 12th Panhellenic Symposium of Oceanography & Fisheries, Corfu, May/June 2018.
17	Karageorgis A., Drakopoulos P., Iona S., Kapsimalis V., Psarra S., Sofianos S., Spyridakis N., Topouzelis K. and Zervakis V., 2018, Advancing ocean colour retrieval for the Hellenic Seas, Joint efforts of Research Institutes and Academia, 1 <sup>st</sup> conference of the Remote Sensing and Space Applications Committee of the Geological Society of Greece, Athens, January 2018.

<b>Invited talks and seminars</b>	
1	Sofianos, S., 2008: Evolution of the Aegean Sea thermohaline structure in the post-Eastern Mediterranean Transient period, 3 <sup>rd</sup> ESF MedCLIVAR Workshop Rhodes, September 2008.
2	Sofianos, S. 2008: Recent and long term changes of the thermohaline characteristics in the Mediterranean Sea, Cyprus Institute, Nicosia, Cyprus, December 2008.
3	Sofianos S., 2009: Extreme event impact on 3-D thermohaline structure variability in the Aegean-Levantine region, 3 <sup>rd</sup> HyMeX Workshop, Heraklion, June 2009.
4	Sofianos, S, 2011: Investigating the Red Sea three-dimensional circulation and exchanges with the Indian Ocean, Opening Symposium of the Red Sea Marine Center, Thuwal, Saudi Arabia, April 2011.
5	Sofianos, S., 2011: The sensitivity of the Aegean-Levantine thermohaline circulation, derived from recent observations and models, Workshop on “Variability of the Eastern and Western Mediterranean Circulation and Thermohaline Properties; Similarities and Differences, Rome, Fondazione Space Academy, Rome, November 2011.
6	Sofianos, S. and W.E. Johns, 2012: Water-mass formation, overturning circulation and the exchange of the Red Sea with the adjacent basins, Workshop on “The Red Sea”, Jeddah, Saudi Arabia, February 2013.
7	Sofianos, S., 2014: Climate change impact on the Mediterranean Sea, Symposium on Impacts of Climate Change on Coastal Cities, Izmir, Turkey, January 2014.
8	Sofianos, S, 2014: Monitoring and modeling the Eastern Mediterranean circulation and its climate variability, EastMed Symposium, Limasol, Cyprus, November 2014.

9	Sofianos, S., 2015: Forcing mechanisms of the Eastern Mediterranean thermohaline variability, EastMed Symposium, Haifa, Israel, October 2015.
10	Sofianos, S., 2017: The Red Sea, the Med Sea and some implications of Turbidity, OSE Seminar Series, Georgia Institute of Technology, Atlanta, USA, April 2017.

**Reviewer in in peer reviewed international journals**

Journal of Physical Oceanography  
Journal of Geophysical Research  
Deep Sea Research  
Geophysical Research Letters  
Ocean Science  
Dynamics of Atmospheres and Oceans  
Journal of Marine Systems  
Computational Fluid Dynamics  
Desalination and Water Treatment  
Mediterranean Marine Science  
Natural Hazards and Earth System Sciences  
Journal of Marine Research  
International Journal of Computational Fluid Dynamics  
Oceanologia  
Journal of Climate  
Environmental Research Letters  
Climate Dynamics  
Earth System Science Data

**Participation in editorial boards of peer reviewed international journals**

Mediterranean Marine Science 2016 – σήμερα

### Research Projects

Participation in Research Projects as a Researcher	
1	Hydrodynamics and geochemical fluxes in the Strait of Otranto (OTRANTO) (MAS2-CT93-0068) Funding: E.U. Project coordinator: Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste (Italy) Partner: University of Athens Duration: 1993 – 1996 Position: Researcher
2	Hydrodynamics and biochemical processes in the straits of the Cretan Arc (PELAGOS) (MAS2-CT93-0059) Funding: E.U. Project coordinator: Hellenic Center for Marine Research Partner: University of Athens Duration: 1993 – 1996 Position: Rsearcher
3	Mediterranean Eddy Resolving Modeling and Interdisciplinary Studies (MERMAIDS) (MAS2-CT93-0055) Funding: E.U. Project coordinator: Istituto Nazionale di Geofosica e Volculanologia (Italy) Project coordinator: Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste (Italy) Duration: 1993 – 1996 Position: Researcher
4	Dynamics of Boundary Currents and Marginal Seas (N00014-95-1-0025) Funding: Office of Naval Research, USA Project coordinator: University of Miami Parner: University of Miami Duration: 1995 - 2000 Position: Research Assistant
5	Σύστημα πρόγνωσης καιρού υψηλής ευκρίνειας για ναυτιλιακές και άλλες εφαρμογές (NHPEΑΣ) Funding: Γενική Γραμματεία Έρευνας και Τεχνολογίας (ΕΠΕΤ II) Project Coordinator: University of Athens Partner: University of Athens Duration: 1999 – 2001 Position: Researcher
6	Σύστημα παρακολούθησης, πρόγνωσης και πληροφόρησης για την κατάσταση των Ελληνικών θαλασσών (ΠΙΟΣΕΙΔΩΝ) Funding: Χρηματοδοτικός Μηχανισμός του Ευρωπαϊκού Οικονομικού Χώρου (ΕΦΤΑ) – Υπουργείο Εθνικής Οικονομίας. Project Coordinator: University of Athens Partner: University of Athens Duration: 1997 – 2001 Position: Researcher

7	<p>Mediterranean Forecasting System Pilot Project (MFSPP) (MAS3-PL97-1608)  Funding: E.U. – FP5  Project coordinator: Istituto Nazionale di Geofosica e Volculanologia (Italy)  Partner: University of Athens  Duration: 1998 – 2001  Position: Researcher</p>
8	<p>Atmospheric Deposition and Impact of pollutants, key elements and nutrients on the Open Mediterranean Sea (ADIOS) (EVK3-CT-2000-0035)  Funding: E.U. – FP5  Project coordinator: Centre de Formation et de Recherche sur l'Environnement Marin, Perpignan (France)  Partner: University of Athens  Duration: 2001 – 2003  Position: Researcher</p>
9	<p>Development and Application of Validated Geophysical Ocean Wave Products from ENVISAT ASAR and RA-2 Instruments (EnviWave) (EVG2-2001-00017)  Funding: E.U. – FP5  Project coordinator: NORUT Northern Research Institute (Norway)  Partner: University of Athens  Duration: 2002 – 2005  Position: Researcher</p>
10	<p>Mediterranean Forecasting System Toward Environmental Prediction (MFSTEP) (EVK3-CT-2003-00075)  Funding: E.U. – FP5  Project coordinator: Istituto Nazionale di Geofosica e Volculanologia (Italy)  Partner: University of Athens  Duration: 2003 – 2006  Position: Researcher and Work-package leader (WP9: Regional/Shelf models)</p>
11	<p>Εφαρμογή αριθμητικών μοντέλων για διερεύνηση πιθανότητας εμφάνισης ευτροφικών φαινομένων σε παράκτιες περιοχές επηρεαζόμενες από ποτάμια - ΠΥΘΑΓΟΡΑΣ ΙΙ (70/3/8016)  Funding: Υπουργείο Παιδείας  Project coordinator: University of Athens  Συνεργασία με Ερευνητική Ομάδα Χημικής Ωκεανογραφίας του Τμήματος Χημείας  Duration: 2005 – 2007  Position: Researcher</p>
12	<p>Καταγραφή παραγωγικότητας Ελληνικών θαλασσών και ανάπτυξη διαχειριστικού εργαλείου για την πρόληψη και αντιμετώπιση περιστατικών ευτροφισμού - ΠΥΘΑΓΟΡΑΣ ΙΙ (70/3/8045)  Funding: Υπουργείο Παιδείας  Project coordinator: University of Athens  Συνεργασία με Ερευνητική Ομάδα Τηλεπισκόπησης του Τομέα Φυσικής Περιβάλλοντος και Μετεωρολογίας  Duration: 2005 – 2007  Position: Researcher</p>

13	<p>Climate Change and Impact Research: the Mediterranean Environment – CIRCE (Integrated Project 036961)  Funding: E.U. – FP6  Project coordinator: Istituto Nazionale di Geofisica e Volcanologia (Italy)  Partner: University of Athens  Duration: 2007 – 2010  Position: Researcher and coordinator of physical oceanography group</p>
14	<p>MARINA Platform: Evaluation of multi-purpose platforms for Marine Renewable Energy (241402)  Funding: E.U. – FP7  Project coordinator: ACCIONA ENERGIA S.A. (Spain)  Partner: University of Athens  Duration: 2010 – 2013  Position: Researcher and coordinator of physical oceanography group</p>
15	<p>A weather, dust, wave, sea currents and tidal forecasting system for the Arabian Peninsula, Red Sea and Gulf Region (WASSF)  Funding: ARAMCO, SA  Project coordinator: University of Athens  Partner: University of Athens  Duration: 2010 – Today  Position: Coordinator of physical oceanography group</p>
16	<p>EMODNET MedSea Checkpoint  Funding: E.U.  Project Coordinator: Istituto Nazionale di Geofisica e Vulcanologia (Italy)  Partner: University of Athens  Duration: 2015 – 2017  Position: Coordinator of physical oceanography group</p>

<b>Participation in Research Projects as a Principal Investigator (or NKUA leading scientist)</b>	
1	<p>Aegean Sea Workshop (N00014-02-1-1089)  Funding: Office of Naval Research, USA  Project coordinator: Institute of Accelerating Systems and Applications (University of Athens)  Partner: IASA  Duration: 2002 – 2003  Position: Principal Investigator</p>

2	<p>Profiling Float Observation in the Aegean Sea (N00014-04-1-0524)  Funding: Office of Naval Research, USA  Project coordinator: Institute of Accelerating Systems and Applications (University of Athens)  Partner: IASA  Duration: 2004 – 2007  Position: Principal Investigator</p>
3	<p>International Action for the Sustainability of the Mediterranean and the Black Sea Environment – IASON (SSA No. 515234)  Funding: E.U. – FP6  Project coordinator: Hellenic Center for Marine Research  Partner: IASA – University of Athens  Duration: 2005 – 2006  Position: Principal Investigator</p>
4	<p>Ανάπτυξη και εφαρμογή εργαλείων διαχείρισης κρίσεων ρύπανσης από πετρελαιοκηλίδες στη περιοχή εγκατάστασης του αγωγού Burgas – Αλεξανδρούπολης (Βορειοανατολικό Αιγαίο) – ΔΙΑΥΛΟΣ (ΑΜΘ 16)  Funding: Γενική Γραμματεία Έρευνας και Τεχνολογίας, Επιχειρησιακό Πρόγραμμα Ανατολικής Μακεδονίας – Θράκης  Project coordinator: MARAC Electronics  Partner: IASA – University of Athens  Duration: 2006 – 2008  Position: NKUA Principal Investigator</p>
5	<p>European COastal-shelf sea OPERational observing and forecasting system – ECOOP (Integrated Project 036355)  Funding: E.U. – FP6  Project coordinator: Danmarks Meteorologiske Institut (Denmark)  Partner: IASA – University of Athens  Duration: 2007 – 2010  Position: NKUA Principal Investigator</p>
6	<p>MyOcean (CA 18122008)  Funding: E.U. – FP7  Project coordinator: Mercator (France)  Partner: IASA – University of Athens  Duration: 2009 – 2012  Position: NKUA Principal Investigator</p>
7	<p>Development of the Integrated Parallel Cyprus Coastal Ocean Forecasting System  Funding: Ίδρυμα Προώθησης Έρευνας (Κύπρος – FP7)  Project coordinator: University of Cyprus  Partner: IASA – University of Athens  Duration: 2009 – 2012  Position: NKUA Principal Investigator</p>



8	Tracking Oil Spills and Coastal Awareness Network (TOSCA) (MED 2340) Funding: E.U. - MED Project coordinator: PACA Sea Innovation & Business Cluster - Toulon Var Technologies (France) Partner: IASA – University of Athens Duration: 2010 – 2013 Position: NKUA Principal Investigator
9	MyOcean II - Integration of pan-European capacity for Ocean Monitoring and Forecasting (GMES Programme) (283367) Funding: E.U. – FP7 Project coordinator: Mercator (France) Partner: University of Athens Duration: 2012 – 2014 Position: NKUA Principal Investigator
10	ARSOCEANS - Operational system for the sea modeling (2334-12-700001) Funding: Republic of Slovenia – EU Cohesion Funds Project coordinator: BRON Slovenia Partner: University of Athens Duration: 2012 – 2014 Position: Principal Investigator
11	Mediterranean Decision Support System for Marine Safety (MED 3653) Funding: E.U. - MED Project coordinator: Department of Merchant Shipping (Cyprus) Partner: IASA – University of Athens Duration: 2012 – 2015 Position: NKUA Principal Investigator
12	MyOcean Follow On (633085) Funding: E.U. – H2020 Project coordinator: Mercator (France) Partner: IASA – University of Athens Duration: 2014 – 2015 Position: NKUA Principal Investigator
13	SCRUM: Stochastic coastal/regional uncertainty modelling: sensitivity, consistency and potential contribution to CMEMS ensemble data assimilation Funding: Copernicus – CMEMS Project Coordinator: S. Sofianos, University of Athens (Greece) Partner: University of Athens Duration: 2016-2018 Position: Principal Investigator
14	SCRUM II: Stochastic coastal/regional uncertainty modelling: sensitivity, consistency and potential contribution to CMEMS ensemble data assimilation - 2 Funding: Copernicus – CMEMS Project Coordinator: S. Sofianos, University of Athens (Greece) Partner: University of Athens Duration: 2018-2020 Position: Principal Investigator

15	Investigation of the role of upper-ocean turbidity in impacting stratification and diapycnal turbulent transport and mixing Funding: Greek Diaspora Fellowship Program: Cycle 4 Project Coordinator: S. Sofianos, University of Athens (Greece) Partner: University of Athens Duration: 2020-2021 Position: Principal Inverstigator
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**Teaching and supervising  
Teaching**

<b>Undergraduate courses (2009-today)</b>		
1	Physical Oceanography	Department of Physics, NKUA
2	Fluid Dynamics	Department of Physics, NKUA
<b>Graduate courses (2009-today)</b>		
3	Introduction to Physical Oceanography	Graduate Program in Oceanography and Marine Management, NKUA
4	Dynamical Physical Oceanography	Graduate Program in Oceanography and Marine Management, NKUA
5	Waves and Tides	Graduate Program in Oceanography and Marine Management, NKUA
6	Air-sea Interaction	Graduate Program in Oceanography and Marine Management, NKUA
7	Numerical Models in Oceanography	Graduate Program in Oceanography and Marine Management, NKUA
8	Operational Oceanography	Graduate Program in Oceanography and Marine Management, NKUA
9	Dynamics of the Atmosphere and the Oceans	Graduate Program in Marine Science and Technology, NTUA
10	Data Analysis Methods	Graduate Program in Applied Physics (Environmental Physics), NKUA
11	Physical Oceanography	Graduate Program in Applied Physics (Environmental Physics), NKUA
12	Geophysical Fluid Dynamics	Graduate Program in Applied Physics (Environmental Physics), NKUA
13	Land-Sea-Air Interactions	Graduate Program in Applied Physics (Environmental Physics), NKUA
14	Numerical Models in Physical Oceanography	Graduate Program in Informatics, NKUA

**Supervising**

<b>Participation in PhD Committees</b> (gray indicates a completed dissertation)				
	<b>Title</b>	<b>Name</b>	<b>End Year</b>	<b>University</b>
<b>Supervisor</b>				
1	The dynamics of the Aegean-Levantine Seas and their climatic implications; hydrographic observations and numerical simulations <b>(co-advisor)</b>	Vasileios Vervatis	2012	Department of Physics, NKUA
2	The impact of climate variability and natural/anthropogenic depositions on the oxygen distribution of the Mediterranean Sea <b>(advisor)</b>	Apostolia-Maria Mavropoulou	2021	Department of Physics, NKUA
3	Investigation of climate change in the Mediterranean Sea and its impact on ecosystem dynamics <b>(advisor)</b>	Athanasios Gkanasos	2021	Department of Physics, NKUA
4	Investigation of the optical properties of seawater in oligotrophic environment <b>(advisor)</b>	Σπύρος Χαϊκάλης	2021	Department of Physics, NKUA
5	Inferring the dominant dynamical processes and thermodynamic exchanges in the Red Sea with water mass transformation methods <b>(advisor)</b>	Dimitra Papageorgiou	2022	Department of Physics, NKUA
6	The impact of the optical characteristics of the sea surface layer on the ocean dynamics (combining observations and models in the Cretan Sea) <b>(advisor)</b>	Vasiliki Metheniti	2023	Department of Physics, NKUA
7	A numerical study of the eastern Mediterranean Sea physical and	Natalia Stamataki	2023	Department of Physics,

	biogeochemical dynamics: A case study of the Cretan Sea <b>(advisor)</b>			NKUA
<b>Participation in PhD Advisory Committees</b>				
1	New methods of analysis and forecast of oceanic waves	George Emanouil	2011	Department of Physics, NKUA
2	3-D Circulation, Impact of the Terrestrial Loading and Atmospheric Conditions on Seasonal and Climatic Time Scales in Eastern Mediterranean gulfs: A case study in Kalloni Gulf, Lesvos island, Greece	Aleksandra-Eleni Spyropoulou	2015	University of Aegean
3	Study of the long term variability of the hydrological characteristics of the Mediterranean Sea and its basins	Athanasia Iona	2019	University of Thessaly
4	Modeling the lower atmosphere and the sea surface condition for energy production applications	Christina Kalogeri	2017	Department of Physics, NKUA
5	Improving precipitation estimates over complex terrain through the use of high-resolution numerical weather predictions.	Nikolaos Bartsotas	2018	Department of Physics, NKUA
6	Estimation of energy production from large scale wind farms	Christos-Marios Stathopoulos	2021	Department of Physics, NKUA
7	The dynamics of water mass formation in the northern Red Sea	George Krokos	2021	King Abdulah University of Science and Technology, Saudi Arabia
8	Estimation of extreme values of environmental variables and	Platon Patlakas	2020	Department of Physics,

	quantification of the uncertainty			NKUA
<b>Participation in PhD Examining Committees</b>				
1	Recent sedimentation processes in the inner continental shelf of Alexandroupolis gulf (NE Aegean Sea)	Katerina Karditsa	2010	Department of Geology & Geoenvironment, NKUA
2	Sea level climate variability in the Mediterranean Sea	Antonio Bonaduce	2012	University of Bologna, Italy
3	Distributed hydrological model of semi-irregular land triangulation of small catchment basins	Konstantina Mitta	2013	Department of Physics, NKUA
4	Parameterization of the coefficients for momentum, heat and humidity fluxes within the Surface Marine Atmospheric Boundary Layer and implementation in an atmospheric and oceanographic model	Vasileios Kostopoulos	2015	Department of Physics, NKUA
5	Assessment of the water fluxes from the Black Sea to the Mediterranean using a coastal HF Radar	Zoi Kokkini	2015	University of Aegean
6	On the complexity of upper ocean mesoscale dynamics	Juan Manuel Sayol Espana	2016	Universitat de les Illes Balears, Spain
7	Advanced modeling and data assimilation methods for the design of sustained marine monitoring networks	Ali Aydogdu	2017	University of Venice, Italy
8	Eastern Mediterranean Thermohaline Circulation Variability	Yael Amitai	2017	Hebrew University of Jerusalem
9	Development and implementation of an ecological model for the simulation of the Mediterranean marine ecosystem and assimilation	Σοφία Καλαρώνη	2017	Department of Biology, NKUA

	techniques of satellite ecological data			
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<b>Participation in MSc Committees and Undergraduate Theses</b>
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<p><b>MSc Advisor in: 35 completed, 8 underway</b></p> <p><b>MSc Advisor Committees: 10 completed, 2 underway</b></p> <p><b>More than 20 Undergraduate Theses completed</b></p>
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***Lecture Notes***

“Introduction in Modeling in Physical Oceanography ”, pp 60
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Notes in “Physical Oceanography” and “Fluid Dynamics” (e-class)
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Notes for the course in the Graduate Program in Oceanography and Marine Management <a href="http://www.oc.phys.uoa.gr/teaching.html">http://www.oc.phys.uoa.gr/teaching.html</a>
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***Recent Academic Mobility***

2016-17, Spring Semester, Sabbatical invited by: Georgia Institute of Technology, Atlanta, GA, USA
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### ***Other Activities***

#### ***Administration***

Member of the National and Kapodistrian University of Athens Senate: 2011-2012
Member of the department of Physics Administration (G.A.): 2010-2011, 2013-2014, 2016-2017, 2017-2019, 2018-2019, 2019-2020, 2020-2021
Member of the Inter-Institutional Graduate Program Committee in “Oceanography and Marine Mangement”: 2009-today
Member of the Inter-Institutional Graduate Program Committee in “Marine Science and Technology”: 2015-2017
Vice Director of the Graduate Program in Applied Physics (Environmental Physics), NKUA: 2020-today
Director of the Graduate Program in, Oceanography and Marine Mangement: 2020-today

#### **Participation in National and Intrnational Boards**

Member of the Science Steering Committee and Operational Advisory Group of the Mediterranean Operational Oceanography Network (MOON), the EuroGOOS Task Team for the Mediterranean Sea: 2005 - 2012
Member of the General assembly of the Mediterranean Operational Network for the Global Ocean Observing System (MONGOOS): 2012-today
Member of the Board of the Greek Oceanographic Union: 2010 - 2012
Associate representative of Greece at the European Federation of Marine Science and Technology Societies (EFMS): 2010 - 2012

#### ***Member***

American Geophysical Union (AGU)
European Geophysical Union (EGU)
CIESM (Commission Internationale pour l’Exploration Scientifique de la mer Mediterranée)

#### ***Distinctions***

1995 – 1996 Rosenstiel Fellow, University of Miami, USA
2020: Co-author in the top downloaded paper 2018-2019, of Geophysical Research letters (Wiley, 2020)