

SARANTIS SOFIANOS CURRICULUM VITAE

Dr. Sarantis Sofianos is a Lecturer at the University of Athens and leads the OPAM group. He graduated in Physics from the University of Athens (1994). He received his Ph.D. in Meteorology and Physical Oceanography from the University of Miami, USA in 2000. His research focal points include the general circulation of semi-enclosed seas, coastal processes and numerical modeling of the oceanic general circulation. He is a member of the Scientific Steering Group and the Operational Advisory Group of the Mediterranean Operational Oceanography Network (MOON).

Research interests and experience

- Investigation of the oceanic general circulation with emphasis on semi-enclosed basins
- Investigation/forecast of the general circulation and coastal systems with the use of numerical models (MICOM – POM - GFDL MOM)
- Statistical analysis of spatio-temporal oceanic variability and air-sea interaction at various time scales (synoptic to climatic)
- Strait dynamics
- Operational Oceanography applications. Supervision of operational oceanography product development (ALERMO - ocean circulation forecast and TRITON – wave forecast systems), which are provided during the last four years at <http://www.oc.phys.uoa.gr/>
- Interdisciplinary applications

Professional experience

October 1994 – June 1995 : Research assistant in the Laboratory of Physical Oceanography of the University of Athens (Greece) working for the EU funded projects: *Otranto, Pelagos, MERMAIDS*.

August 1995 – June 2000 : Research assistant at the Rosenstiel School of Marine and Atmospheric Science (University of Miami, USA) working for the project: *Dynamics of Ocean Currents and Marginal Seas (ONR)*.

July 2000 – February 2003: Research associate in the Laboratory of Physical Oceanography of the University of Athens (Greece) working in several Greek and EU funded projects, including: *NIREAS, POSEIDON, MFSPP, EnviWave*.

February 2003 – 2008: Researcher at the Division of Environmental Physics, University of Athens and Institute of Accelerating Systems and Applications (affiliated with the Univ. Athens and National Technical University of Athens), coordinator or physical oceanography scientific responsible in several Greek, EU and US projects, including: *MFSTEP, Profiling Float Observations in the Aegean Sea, IASON, ECOOP, DIAVLOS, MyOcean.*

June 2008: Elected Lecturer (Physical Oceanography) at the Department of Physics, University of Athens.

Research experience

Participation as a researcher:

- *Hydrodynamics and geochemical fluxes in the Strait of Otranto (OTRANTO) (MAS2-CT93-0068).*
- *Hydrodynamics and biochemical processes in the straits of the Cretan Arc (PELAGOS) (MAS2-CT93-00659).*
- *Mediterranean Eddy Resolving Modeling and Interdisciplinary Studies (MERMAIDS) (MAS2-CT93-0055).*
- *Dynamics of Ocean Currents and Marginal Seas (ONR-USA N00014-95-1-0025).*
- *High resolution weather forecasting system for navigational (NIREAS).*
- *POSEIDON Monitoring and Forecasting System of the Greek Sea. Project Mediterranean Forecasting System Pilot Project (MFSP) (MAS3-PL97-1608).*
- *Atmospheric Deposition and Impact of pollutants, key elements and nutrients on the Open Mediterranean Sea (ADIOS) (EVK3-CT-2000-0035).*
- *Development and Application of Validated Geophysical Ocean Wave Products from ENVISAT ASAR and RA-2 Instruments (EnviWave), (EVG2-2001-00017).*
- *Climate Change and Impact Research: the Mediterranean Environment (CIRCE), (CIRCE-IP 036961).*
- *MARINA Platform: Evaluation of multi-purpose platforms for Marine Renewable Energy, (Collaborative Project, FP7 Grant agreement number: 241402).*

PI or co-PI in funded projects

- *Mediterranean Forecasting System Toward Environmental Prediction (MFSTEP) (EVK3-CT-2002-00075), 03/2003-05/2006, Regional and shelf modeling coordinator and University of Athens Principal Investigator.*
- *Profiling Floats Observations in the Aegean Sea (N00014-04-1-0524), 2004-2006, Principal Investigator.*
- *International Action for the Sustainability of the Mediterranean and the Black Sea Environment – IASON (SSA No. 515234), 01/2005 – 06/2006, University of Athens Principal Investigator.*
- *Development and adaptation of operational crisis management tools for oil spill monitoring in the Burgas - Alexandroupolis oil pipe system – DIAVLOS (AMØ-16 Measure 2.1 2006-2008), 09/2006-03/2008, IASA-University of Athens Principal Investigator.*
- *European COastal-shelf sea OPerational observing and forecasting system – ECOOP (Integrated Project 036355_IP_20060921), 2007-2009, IASA-University of Athens Principal Investigator.*
- *MyOcean (FP7 Collaborative Project MyOcean_CA_18122008), 2009-2011 IASA-University of Athens Principal Investigator.*
- *Tracking Oil Spills and Coastal Awareness Network, TOSCA, (MED 09-425), 2010-2013 IASA-University of Athens Principal Investigator.*
- *MyOcean II - Integration of pan-European capacity for Ocean Monitoring and Forecasting (GMES Programme) – FP7 283367 University of Athens Principal Investigator.*
- *ARSOCEANS - Operational system for the sea modelling - Republic of Slovenia – EU Cohesion Funds 2334-12-700001 University of Athens Principal Investigator.*
- *Mediterranean Decision Support System for Marine Safety – MED 3653 University of Athens Principal Investigator.*

Research Products

1. Coordination of the marine operational forecasting system ALERMO (Aegean-Levantine Eddy Resolving Modeling system). As of September 2004, the system provides 5-days marine circulation forecasting in the Aegean-Levantine region (<http://www.oc.phys.uoa.gr/oceanf.html>).
2. Participation and coordination of the wave forecasting system TRITON, providing 60-hours wave forecasting in a 14-model system, from global scale to coastal (<http://www.oc.phys.uoa.gr/dok1.htm>).
3. Coordination of a marine operational forecasting system in the North Aegean Sea (<http://www.oc.phys.uoa.gr/mfstep/bulnaeg/>) and an oil-spill forecasting tool (<http://diavlos.oc.phys.uoa.gr>) implemented in the area of the Burgas-Alexandroupolis oil-pipe development area.
4. Coordination of a near real time and delayed mode drifter and profiling float monitoring system in the Eastern Mediterranean Sea, in collaboration with the University of Washington, University of Miami and Hellenic Center for Marine Research (http://www.oc.phys.uoa.gr/lagr_obs.html).

Field Experience

Participation in several research cruises in the Mediterranean, the Red Sea and the Atlantic Ocean.

Teaching experience

Teaching experience includes:

- Teaching a number of courses at the undergraduate and graduate level (Fluid Dynamics, Physical Oceanography, Air-sea interaction, Numerical modeling, Statistical Analysis of Geophysical Data)
- Participation in the supervision of six (6) PhD students and seventeen (22) MSc students of the graduate programs in Oceanography and Marine Environmental Management and Environmental Physics and Meteorology, University of Athens.

- Participation in the PhD committee of Antonio Bonaduce (University of Bologna)

Administrative experience

2009-today: Member of the Interdepartmental Board and the Steering Committee of the Graduate School of Oceanography and Marine Management.

2010-2011: Member of the Dept of Physics Administration.

2011-2012: Member of the University of Athens Seanate.

Publications

Publications in peer reviewed journals and books

Sofianos S. S. and W. E. Johns, 2001: Wind induced sea level variability in the Red Sea, *Geophysical Research Letters*, 28, 3175-3178.

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, *Deep Sea Research II*, 49, 1323-1340.

Sofianos S. S. and W. E. Johns, 2002: An Oceanic General Circulation Model (OGCM) investigation of the Red Sea circulation, 1. The exchange between the Red sea and the Indian Ocean. *Journal of Geophysical Research*, 107, 3196, doi: 10.1029/2001JC001184.

Sofianos S. S. 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. *Journal of Geophysical Research*, 108, 3066, doi: 10.1029/2001JC001185.

Lascaratos A., S. Sofianos, and G. Korres, 2003: Interannual variability of atmospheric parameters over the Mediterranean basin fro 1945 to 1994, *CIESM Workshop Series*, vol. 16, pp. 21-24.

Theocharis A., A. Lascaratos, and S. Sofianos, 2003: Variability of sea water properties in the Ionian, Cretan and Levantine seas during the last century, *CIESM Workshop Series*, vol. 16, pp. 73– 76.

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. Papanthasiou and A. Zenetos, HCMR Publ., 360 pp, ISBN: 960-86651-8-3.

Sofianos S. S., N. Skliris, A. Mantziafou, A. Lascaratos, G. Zodiatis, R. Lardner, D. Hayes, and G. Georgiou, 2006: Nesting operational forecasting models in the

- Eastern Mediterranean: active and slave mode, *Ocean Science Discussions*, 3, 1225–1254.
- Skliris N., S. Sofianos and A. Lascaratos, 2007: Hydrological changes in the Mediterranean Sea in relation to changes in the freshwater budget: A numerical modelling study, *Journal of Marine Systems*, 65, 400-416.
- Sofianos S. S. and W. E. Johns, 2007: Observations of the summer Red Sea circulation, *Journal of Geophysical Research*, VOL. 112, C06025, doi:10.1029 - 2006JC003886.
- 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, *Ocean Science*, 4, 31-47.]
- Skliris, N., A. Mantziafou, S. Sofianos, and A. Gkanasos, 2010: Satellite-derived variability of the Aegean Sea ecohydrodynamics, *Continental Shelf Research*, 30 (5), pp. 403-418.
- Tzali, M., S. Sofianos, A. Mantziafou and N. Skliris, 2010: Modelling the impact of Black Sea water inflow on the North Aegean Sea hydrodynamics, *Ocean Dynamics*, DOI: 10.1007/s10236-010-0277-3.
- 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, *Ocean Dynamics*, DOI 10.1007/s10236-011-0493-5.
- 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), *J. Geophys. Res.*, doi:10.1029/2010JC006868.
- Skliris, N., S. S. Sofianos, A. Gkanasos, P. Axaopoulos, A. Mantziafou, V. Vervatis, 2011: Long-term sea surface temperature variability in the Aegean Sea, *Advances in Oceanography and Limnology*, 2:2, 125-139
- Pinardi, N., Coppini, G., Dobricic, S., Fratianni, C., Tonani, M., Oddo, P., Manzella, G. M. R., Tziavos, C., Nittis, K., Larnicol, G., Poulain, P.-M., Send, U., Raicich, F., Griffa, A., Crispi, G., De Mey, P., Lascaratos, A., Sofianos, S., Kallos, G., Katsafados, P., Pytharoulis, I., Zavatarelli, M., Triantafyllou, G., Zodiatis, G., and Petit De La Villeon, 2012: The Mediterranean Forecasting System, L, *Bulletin of the American Meteorological Society*, submitted.
- Zafirakou-Koulouris A., C. Koutitas, S. Sofianos, A. Mantziafou, M. Tzali and S. C. Dermisi, 2012, Oil Spill Dispersion Forecasting with the aid of a 3D Simulation Model, *Journal of Physical Science and Application*, 2012, 10, 448-453.

- Johns, W. E. and S. Sofianos, 2012, Atmospherically Forced Exchange through the Bab el Mandeb Strait, *J. Phys. Oceanogr.*, 42, 1143–1157.
- Vervatis V. D., S. S. Sofianos, N. Skliris, S. Somot, A. Lascaratos and M. Rixen, 2013: Mechanisms controlling the thermohaline circulation pattern variability in the Aegean–Levantine region. A hindcast simulation (1960–2000) with an eddy resolving model, *Deep-Sea Research I*, 74, 82–97.
- Özsoy E., S. Sofianos, I. Gertman, A. Mantziafou, A. Aydoğdu, S. Georgiou, E. Tutsak, A. Lascaratos, A. Hecht and M. A. Latif, 2013: Deep-water variability and inter-basin interactions in the Eastern Mediterranean Sea, *Geophysical Monograph Series*, (accepted for publication).

Publications in proceedings of international conferences

- 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.
- 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.
- 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.
- Sofianos S. S. and W. E. Johns, 2000: Modeling the seasonal exchange between a semi-enclosed sea and the open ocean, April 2000, EGS XXV General Assembly, Nice, France.
- 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.
- Korres G., A. Lascaratos and S. Sofianos, 2002: Use of atmospheric forecast fields in ocean circulation and wave prediction models in Greek areas, 5th RAMS Workshop and Related Applications. 29 Sept. – 3 Oct. 2002, Santorini, Greece.
- Korres G., A. Lascaratos, S. Sofianos and G. Kallos, 2002: The ALERMO ocean circulation forecast system, 3rd EuroGOOS Conference, December 2002, Athens, Greece
- Korres G., A. Lascaratos, S. Sofianos and G. Kallos. 2002: The TRITON wave forecast system, 3rd EuroGOOS Conference, December 2002, Athens, Greece
- Johns W. E., S. P. Murray, S. Sofianos, D. B. Olson and F. Yao, 2003: Exchanges of the Arabian Marginal Seas with the Indian Ocean, IUGG 2003 Meeting, Sapporo, Japan, June 30 – July 11, 2003.
- Sofianos S., N. Skliris, and A. Lascaratos, 2004: Forcing mechanisms of the Aegean Sea Circulation, CIESM 2004 Meeting, Barcelona, May 2004.
- Lascaratos A. and S. Sofianos, 2004: Deep water mass variability in the Eastern Mediterranean, CIESM 2004 Meeting, Barcelona, May 2004.

- 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.
- Sofianos S., A. Lascaratos, and V. Vervatis, 2004: Monitoring the Saharan dust dispersion in the Mediterranean Sea with a numerical model (2001-2002), CIESM 2004 Meeting, Barcelona, May 2004.
- Skliris N., A. Lascaratos, and S. Sofianos, 2004: Modelling the impact of the Nile damming on the Mediterranean thermohaline circulation, CIESM 2004 Meeting, Barcelona, May 2004.
- Skliris N., S. Sofianos, A. Lascaratos, 2004: Past and future changes in the Mediterranean "climate" in relation to changes in the freshwater budget: a numerical modeling study, 36th International Liege Colloquium on Ocean Dynamics: "Marine Environmental Monitoring and Prediction", May 2004, Liege, Belgium.
- Kallos G., S. Sofianos, I. Pytharoulis, P. Katsafados and N. Skliris, 2005: Limited area atmosphere/ocean forecasting system for the Eastern Mediterranean MFSTEP activities, 2005 International Ocean Research Conference, UNESCO-TOS, Paris, France, June 2005.
- Sofianos S., N. Skliris, V. Vervatis, D. Olson, V. Kourafalou, A. Lascaratos and W. Johns, 2005: On the Forcing Mechanisms of the Aegean Sea Surface Circulation, Geophysical Research Abstracts, Vol.7, 04223.
- Skliris N., S. Sofianos and A. Lascaratos, 2006: Changes in the Mediterranean Sea climate in relation to changes in the freshwater budget: a numerical modeling study, Geophysical Research Abstracts, Vol.8, 02251.
- Zodiatis G., R. Lardner, D. Hayes, G. Georgiou, S. Sofianos, N. Skliris and A. Lascaratos, 2006: Implementation and evaluation of regional and coastal ocean forecasting systems in the Eastern Mediterranean, Geophysical Research Abstracts, Vol.8, 04627.
- Theocharis A., V. Vervatis and S. Sofianos, 2006: Monitoring the evolution of the Aegean Sea thermohaline characteristics in the post-Eastern Mediterranean Transient period, Geophysical Research Abstracts, Vol.8, 06515.
- Sofianos S., A. Theocharis and V. Vervatis, 2006: Profiling Float Observations in the Aegean Sea, Second Argo Science Workshop, Venice, Italy, March 13-18, 2006.
- Skliris N., S. Sofianos, A. Mantziafou and A. Lascaratos, 2007: Ocean Forecasting in the Eastern Mediterranean, the ALERMO system, CIESM 2007 Meeting, Istanbul, Turkey.
- Sofianos S., A. Theocharis and V. Vervatis, 2007: Changes in the Aegean Sea Thermohaline Characteristics in the Post-Eastern Mediterranean Transient Period, CIESM 2007 Meeting, Istanbul, Turkey.
- Skliris N., A. Mantziafou, S. Sofianos, A. Lascaratos, I. Keramitsoglou, G. Vlahopoulos, N. Adaktilou and C. Cartalis, 2007: Modelling the Ecohydrodynamics of the Aegean Sea, EGU General Assembly, Vienna 15-20 April 2007.

- Zodiatis G., R. Lardner, D. Hayes, G. Georgiou, S. Sofianos, N. Skliris, G. Kallos and A. Lascaratos, 2007: Validation of Ocean Forecasts in the Levantine Basin, Eastern Mediterranean, International Conference, Fluxes and Structures in Fluids, St. Petersburg, Russia, July 2007.
- Sofianos S., 2007: The Mediterranean Operational Oceanography Network Forecasting System, GODAE Coastal Workshop, Liverpool, UK, October 2007.
- Skliris N., A. Mantziafou, S. Sofianos, A. Lascaratos, I. Keramitsoglou, G. Vlahopoulos, C. Cartalis, V. Paraskevopoulou, M. Scoullou, 2008: A study of the plankton ecosystem of the Aegean Sea using Seawifs data and a 3D coupled hydrodynamic/biological model, EGU General Assembly, Vienna, April 2008.
- Zodiatis G., D. Hayes, R. Lardner, G. Georgiou, S. Sofianos, N. Skliris, A. Lascaratos, 2008: Evaluation of operational ocean forecasting in the Cyprus subregion, EGU General Assembly, Vienna, April 2008.
- Sofianos, S., 2008: Evolution of the Aegean Sea thermohaline structure in the post-Eastern Mediterranean Transient period, 3rd ESF MedCLIVAR Workshop Rhodes, September 2008 (INVITED).
- Zodiatis G., S. Sofianos, N. Skliris, A. Mantziafou, A. Lascaratos, R. Lardner, D. Hayes, G. Gerogiou G., 2009: Evaluating nesting procedures in ocean operational forecasting in the Eastern Mediterranean, Fluxes and Fluid structure conference, Moscow, Lomonosov University, June 2009.
- Skliris N., A. Mantziafou, S. Sofianos, A. Gkanasos, V. Vervatis, 2009: Variability of sea surface temperature and chlorophyll in the Aegean Sea from satellite measurements, EGU General Assembly, Vol. 11, EGU2009-487.
- Vervatis V., S. Sofianos, and A. Theocharis, 2009: Water mass distribution and formation processes in the Aegean Sea, EGU General Assembly, Vol. 11, EGU2009-4794.
- Tzali, M., Sofianos, S., Kallos, G., Mantziafou, A., Zafeirakou, A., Dermisis, V., Koutitas, Ch., Zervakis, V., 2009: Oil spill dispersion forecasting system for the region of installation of the burgas alexandroulopi pipeline outlet (N.E. Aegean) in the framework of "DIAVLOS" project, AIP Con. Proc., DOI:10.1063/1.3322304.
- Axaopoulos, P. and S. Sofianos, 2009: Long term variability of sea surface temperature in Mediterranean Sea, AIP Con. Proc., DOI: 10.1063/1.3322579.
- Sofianos S., 2009: Extreme event impact on 3-D thermohaline structure variability in the Aegean-Levantine region, 3rd HyMeX Workshop, 1-4 June 2009, Heraklion, 2009 (INVITED).
- Sofianos S., 2010: Monitoring and modelling the dynamics of the Aegean-Levantine basins, 4th HyMeX Workshop, 8-10 June 2010, Bologna, Italy, 2010.
- Skliris N., A. Mantziafou, S. Sofianos, A Gkanasos, P. Aksaopoulos, and V. Vervatis, 2010: Satellite-derived long-term variability of sea surface temperature in the Mediterranean Sea, Geophysical Research Abstracts Vol. 12, EGU2010-6448.
- Sofianos S., N. Skliris, A. Mantziafou and M. Tzali, 2010: Ocean forecasting in the Aegean-Levantine region, Eos Trans. AGU, 91(26), Ocean Sci. Meet. Suppl., 2010.

- Skliris N., A. Mantziafou, S. Sofianos, A. Gkanasos and A. Lascaratos, 2010: Sea surface temperature and chlorophyll non-seasonal variability in the Aegean sea by means of EOF analysis of satellite data, 39th CIESM Congress, Venice, Italy, 2010.
- Kallos G., G. Galanis, C. Mitsakou, P. Athanasiadis, C. Spyrou, S. Sofianos, and C. Kalogeri, 2011: Energy resource mapping at the framework of MARINA PLATFORM project, Geophysical Research Abstracts Vol. 13, EGU2011-11950.
- Sofianos S., N. Skliris, A. Mantziafou, A. Lascaratos and M. Tzali, 2011: Advances in forecasting the Aegean-Levantine circulation, 2nd Scientific Conference and Annual General Assembly of the European Federation of Marine Science and Technology Societies, Athens, Greece, July 2011.
- Vassilios Vervatis, Sarantis Sofianos, and Nikolaos Skliris, 2011: Dynamical features of the Aegean-Levantine Seas: Interannual simulations for the years 1960-2000, 2nd Scientific Conference and Annual General Assembly of the European Federation of Marine Science and Technology Societies, Athens, Greece, July 2011.
- Nikolaos Skliris, Sarantis S. Sofianos, Athanasios Ganasos, Anneta Mantziafou, Panagiotis Axaopoulos, Vassilios Vervatis, 2011 : Sea surface temperature variability in the Aegean Sea during 1985-2008, 2nd Scientific Conference and Annual General Assembly of the European Federation of Marine Science and Technology Societies, Athens, Greece, July 2011.
- Sofianos, S., and Vervatis, V., 2012: The response of the Aegean and Levantine seas to changes of the air-sea fluxes, AGU, Ocean Sci. Meeting, Salt Lake City, 2012.
- Cradden, L. C. Kalogeri, C. Spyrou, A. Adam, C. Stathopoulos, G. Galanis, S. Sofianos, D. Ingram, G. Kallos, A. Papapostolou, P. Axaopoulos, 2012: A combined resource atlas for marine energy, 4th International Conference on Ocean Energy, 17 October, Dublin, 2012.
- Sofianos S., Vervatis V., Skliris N., Somot S., Lascaratos A., Mantziafou A., 2012: Climate variability and water mass formation in the Eastern Mediterranean Sea, 11th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens May-June 2012.
- Özsoy, E., Sofianos, S., Gertman, I., Mantziafou, A., Aydoğ du, A., Vervatis, V., Tutsak, E., Lascaratos, A. and Latif, M. A. Deep-water variability and inter-basin interactions in the Eastern Mediterranean Sea, MedCLIVAR 2012 Conference, Madrid, September 2012.
- Sofianos S. and W. Johns, 2013: Water-mass formation, overturning circulation and the exchange of the Red Sea with the adjacent basins, Saudi Geological Survey Conference, Red Sea: Its origin Structure and Environment, Jeddah, 2013.
- Özsoy E., S. Sofianos, I. Gertman, A. Mantziafou, A. Aydogdu, S. Georgiou, E. Tutsak, A. Lascaratos, Artur Hecht, and M. A. Latif, 2013: Deep-water

variability and inter-basin interactions in the Eastern Mediterranean Sea, Geophysical Research Abstracts Vol. 15, EGU2013-3990, 2013, EGU General Assembly, Vienna 2013.

Ravdas M., S. Sofianos, A. Mantziafou, and V. Vervatis, 2013: The Dynamics of the Ionian Sea and its climatic implication: Interannual simulation for the period 1960-2000, Geophysical Research Abstracts, Vol. 15, EGU2013-4909, 2013, EGU General Assembly, Vienna 2013.

Kallos G., G. Galanis, C. Spyrou, C. Mitsakou, S. Solomos, N. Bartsotas, C. Kalogrei, I. Athanaselis, S. Sofianos, V. Vervatis, P. Axaopoulos, A. Papapostolou, J. Al Qahtani, E. Alaa, I. Alexiou, and D. Beard, 2013: An integrated weather and sea-state forecasting system for the Arabian Peninsula (WASSF), Geophysical Research Abstracts, Vol. 15, EGU2013-10629, 2013, EGU General Assembly, Vienna 2013.

Publications in proceedings of Greek conferences

Sofianos, S., A. Theocharis, and A. Lascaratos, 2003: Long term variability of hydrology and dynamics in the Mediterranean Sea (1910-1999), 7th Hellenic Symposium of Oceanography and Fisheries, Creta, May 2003.

Skliris N., S. Sofianos, A. Mantziafou, A., I. Keramitsoglou, N. Adaktilou, C. Cartalis and A. Lascaratos, 2006: Modeling of the plankton ecosystem of the Aegean Sea in relation to mixed layer dynamics, 8th Hellenic Symposium of Oceanography and Fisheries, Thessaloniki, June 2006.

Sofianos S., A. Theocharis and V. Vervatis, 2006: Profiling Flot Observations in the Aegean Sea, 8th Hellenic Symposium of Oceanography and Fisheries, Thessaloniki, June 2006.

N. Skliris, S. Sofianos, A. Mantziafou, V. Vervatis and A. Lascaratos, 2006: Ocean Forecasting in the Eastern Mediterranean with the MFS-ALERMO System, 8th Hellenic Symposium of Oceanography and Fisheries, Thessaloniki, June 2006.

Aspiotis, S. Sofianos, N. Skliris and A. Lascaratos, 2006: Wind and Wave Correlations in the Greek Seas, 8th Hellenic Symposium of Oceanography and Fisheries, Thessaloniki, June 2006.

Vervatis V., Sofianos S., Theocharis A., 2010: Water mass structure and its evolution in the Aegean and Levantine basins from direct observations, 9th Hellenic Symposium of Oceanography and Fisheries, Patras, May 2010.

Gkanasos A., Skliris N., Mantziafou A., Sofianos S., 2010: Satellite derived seasonal variability of sea surface temperature and chlorophyll in the Aegean sea, 9th Hellenic Symposium of Oceanography and Fisheries, Patras, May 2010.

Kontoyiannis H., Zervakis V., Sofianos S., Theocharis A., Georgopoulos D., 2010: An example of flow behavior over topography in the southern Cyclades Plateau, 9th Hellenic Symposium of Oceanography and Fisheries, Patras, May 2010.

Tzali M., Sofianos S., Mantziafou A., Vervatis V., 2010: Impact of the Black Sea Water on the circulation of the North Aegean Sea, 9th Hellenic Symposium of Oceanography and Fisheries, Patras, May 2010.

Sofianos S., G. Kallos, A. Mantziafou, M. Tzali, A. Zafeirakou, A. dermisis, V. Koutitas, V. Zervakis, 2010: Operational system for forecasting the dispersion of oil spills in the area of the Burgas - Aleksandroupolis (NE Aegean) oil pipe terminal in the framework of DIAVLOS Project, 9th Hellenic Symposium of Oceanography and Fisheries, Patras, May 2010.

Technical Reports

Author or co-author of over 100 reports.