



HELLENIC REPUBLIC

National and Kapodistrian University of Athens

Faculty of Physics

Department of Environmental Physics - Meteorology



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Academic Qualifications:

- BSc in Physics (University of Athens, Greece)
- PhD in Meteorology and Physical Oceanography (University of Miami, USA)

Appointments:

- Faculty of Physics, University of Athens

Teaching Activities:

Undergraduate courses:

- Fluid Dynamics
- Physical Oceanography

Graduate courses:

- Physical Oceanography
- Air-sea-land interactions
- Numerical Modeling in Physical Oceanography
- Operational Oceanography

Research Interests/Activities:

- Ocean dynamics and air-sea interactions with emphasis on semi-enclosed basins
- Climate variability and dynamics, using remote sensing, in-situ observations and numerical modeling techniques
- Numerical modeling in Physical Oceanography
- Operational Oceanography and operational applications in marine environmental protection and renewable energy
- Participation in 30 research projects (EU, US, Greek funding). Some recent projects:
 - MyOcean and MyOcean2 (www.myocean.eu)
 - MEDESS4MS (www.medess4ms.eu)
 - TOSCA (www.tosca-med.eu)
 - MARINA Platform (www.marina-platform.info)
 - ECOOP (www.ecoop.eu)

Scientific Publications/Citations:

- 22 publications in peer review journals and books
- 55 publications in peer review international conference proceedings
- 10 publications in peer review Greek conference proceedings
- 8 invited talks

Top five publications

- 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, 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.
- 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.
- 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.
- Johns, W. E. and S. Sofianos, 2012, Atmospherically Forced Exchange through the Bab el Mandeb Strait, J. Phys. Oceanogr., 42, 1143-1157

Distinctions:

- Rosenstiel Fellow (1995-96)
- Member of the Scientific Committee and Operational Advisory Group of the Mediterranean Operational Oceanography Network (2005 to today)

Other Activities:

- Coordinator of the Ocean Physics and Modeling group of the University of Athens
- Coordinator of the ALERMO ocean forecasting system (<http://www.oc.phys.uoa.gr/oceanf.html>)
- Coordinator of the TRITON wave forecasting system (<http://www.oc.phys.uoa.gr/dok1.html>)
- Coordinator of the DIAVLOS oil spill forecasting system (<http://diavlos.oc.phys.uoa.gr>)
- Experimental field experience in oceanographic cruises in various areas of the world ocean