



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

Participation in 10 PhD committees and 28 MSc committees

**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 25 research projects (EU, US, Greek funding) – University of Athens, Principal Investigator in 10 projects. Some recent projects:

- MyOcean, MyOcean2, MyOcean-FO ([www.myocean.eu](http://www.myocean.eu))
- MEDESS4MS ([www.medess4ms.eu](http://www.medess4ms.eu))
- TOSCA ([www.tosca-med.eu](http://www.tosca-med.eu))
- MARINA Platform ([www.marina-platform.info](http://www.marina-platform.info))
- ECOOP ([www.ecoop.eu](http://www.ecoop.eu))

### Scientific Publications/Citations:

- 25 publications in peer review journals and books
- 307 citations
- 62 publications in peer review international conference proceedings
- 10 publications in peer review Greek conference proceedings
- 6 invited talks

### Selected 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. 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.
- 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, 2014: Deep-water variability and inter-basin interactions in the Eastern Mediterranean Sea, in: *The Mediterranean sea: temporal variability and spatial patterns*, Ed. G. E. Borzelli, *Geophysical Monograph Series*, ISBN978-1-118-84734-3.

### Distinctions:

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

### 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