

Ioannis Kalogiros

Associate Researcher, IERSD, NOA

Ph.D., Department of Physics, University of Athens, Greece, 1997

M.Sc. in Meteorology, Department of Physics, University of Athens, Greece, 1991

BS. of Physics, Department of Physics, University of Athens, Greece, 1989

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PROFESSIONAL EXPERIENCE

- ❑ 2002 – present: Researcher in the National Observatory of Athens, Institute of Environmental Research & Sustainable Development, Athens, Greece
- ❑ 2000 – 2002: Research Associate in the Department of Meteorology, Naval Postgraduate School, Monterey, USA
- ❑ 1998 – 2000: Research Assistant in the Laboratory of Meteorology, Division of Applied Physics, Department of Physics, University of Athens, Athens, Greece
- ❑ 1996 – 1997: Teaching Assistant, Laboratory of Aerodynamics, Hellenic Air Force Academy, Athens, Greece
- ❑ 1991 – 1996: Research and Teaching Assistant, Division of Applied Physics, Department of Physics, University of Athens, Athens, Greece

AREAS OF EXPERTISE

Precipitation and floods observations using weather radar, Clear and cloudy Atmospheric Boundary Layer, Air-sea interaction, observations with instrumented aircraft, ships, buoys, acoustic sounder and masts.

HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE

- ❑ American Meteorological Society member
- ❑ Royal Meteorological Society member
- ❑ University of Athens scholarship, Athens, Greece (1991-1995)

PUBLICATIONS

Co-authored 27 papers published in refereed journals. The total number of citations to all my refereed papers is ~200, while my h-index is 8 (source Scopus). Five representative papers follow:

- ❑ Kalogiros, J. M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, (2012): “Optimum estimation of rain microphysical parameters using X-band dual-polarization radar observables,” *IEEE Trans. Geosci. Remote Sens*, 51, 5, 3063- 3076, DOI: 10.1109/TGRS.2012.2211606
- ❑ Kalogiros, J., (2012): “Least-Squares Reconstruction of Doppler Radar Spectra for Irregular PRT,” *J. Atmos. Oceanic Technol.*, DOI: 10.1175/JTECH-D-12-00026
- ❑ Kalogiros, J.A., and Q. Wang, (2011): “Aircraft observations of sea surface turbulent fluxes near the California coast”, *Boundary-Layer Meteorology*, 139, 283-306, DOI: 10.1007/s10546-010-9585-x.

- ❑ Buzorius G., J. Kalogiros and T. Varutbangkul, (2006): "Airborne aerosol flux measurements with eddy-correlation above the ocean in a coastal environment", *Journal of Aerosol Science*, 37, 1267-1286.
- ❑ Kalogiros, J.A., and Q. Wang, (2002): "Aerodynamics effects on wind turbulence measurement with research aircraft", *Journal of Atmospheric and Oceanic Technology*, Vol. 19, 1567-1576.

STUDENT AND POSTDOC SUPERVISION

Supervision of one post-doc in Observatory of Athens, Institute of Environmental Research & Sustainable Development, Athens, Greece and advisor of MSc students of Division of Applied Physics, Department of Physics, University of Athens, Greece and the Department of Meteorology, Naval Postgraduate School, Monterey, USA.

RECENT RESEARCH FUNDING

- ❑ Improving our understanding of wave-air-sea interaction in the marine boundary layer, Naval Supply Systems Command, Basic and Applied Scientific Research, USA, 2013-2016, PI, 120 k\$.
- ❑ HYDRO-X Advancing hydrometeorological uses of X-band dual-polarization radar, Ministry of Education, Greece, 2012-2014, PI, 128 k€
- ❑ HYDRORAD Integrated advanced distributed system for hydro-meteorological monitoring and forecasting using low-cost high-performance X-band mini-radar and cellular network, FP7-SME, 2009-2011, PI, 238 K€

OTHER

Reviewer in the scientific journals: *Journal of Atmospheric and Oceanic Technology*, *Journal of Applied Meteorology*, *Atmospheric Research*, *Journal of Hydrology*, *Atmospheric Measurement Techniques*, *Journal of Geophysical Research-Oceans*, *International Journal of Atmospheric Sciences*, *Journal of Climatology*.