

Dr. Vassilios Psiloglou

Senior Researcher at IERSD/NOA
Ph.D. in Atmospheric Physics, University of Athens, Greece, 1997
M.Sc. in Meteorology / Environmental Physics, University of Athens, Greece, 1992
B.Sc. in Mathematics, University of Athens, Greece, 1989

e-mail: bill@meteo.noa.gr

PROFESSIONAL EXPERIENCE

- ❑ **April 2010 - present:** Senior Researcher at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ **March 2006 – April 2010:** Associate Researcher at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ **February 2001 – March 2006:** Research Scientist at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ **December 1997 – January 2001:** Research Associate at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ **September 1991 – March 1996:** Acting as Research Fellow in the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece.

AREAS OF EXPERTISE

Solar Radiation Modelling on Horizontal and Tilted Surfaces, Experimental Study of Meteorological and Air-Quality Parameters, Environmental Management and Risk Assessment using GIS techniques, Analysis of Electricity Demand Characteristics, Renewable Solar Energy, Air pollution and Meteorological Instrumentation.

HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE

- ❑ State Scholarships Foundation Fellowship, 1988-1989
- ❑ NATO-CCMS Fellowship, 1993-1997.
- ❑ British Council Traveling Fellowship, September 1994.
- ❑ European Space Agency/European Research Institute (ESA/ESRIN) Traveling Fellowship, August 2003.
- ❑ Member of Hellenic Mathematical Society
- ❑ Member of Hellenic Meteorological Society
- ❑ Member of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

PUBLICATIONS

Co-authored 28 papers published in refereed international journals. The total number of citations to all my refereed papers is 270, while my h-index is 9 (source Scopus). Representative papers follow:

- ❑ Kambezidis H.D., Psiloglou B.E. and Gueymard C., "Measurements and models for total solar irradiance on inclined surface in Athens, Greece.", *Solar Energy*, Vol. 53(2), pp. 177 – 185, 1994.
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- Santamouris M., Mihalakakou G., Psiloglou B.E., Eftaxias G., and Asimakopoulos D.N., "Modelling the global solar radiation on the earth surface using atmospheric deterministic and intelligent data driven techniques", *Journal of Climate*, Vol. 12(10), pp. 3105-3116, 1999.
- Psiloglou B.E., Santamouris M. and Asimakopoulos D.N., "Atmospheric broadband model for computation of solar radiation at the earth's surface. Application to Mediterranean climate", *Pure and Applied Geophysics (PAGEOPH)*, Vol. 157, pp. 829-860, 2000.
- G. Mihalakakou, B.E. Psiloglou, M. Santamouris and D. Nomidis, "Application of renewable energy sources in the Greek islands of the South Aegian Sea", *Renewable Energy*, Vol. 26, 1-19, 2002.
- M. Petrakis, B. E. Psiloglou, P. Kassomenos, and C. Cartalis, "Summertime measurements of benzene and toluene in Athens, using a DOAS system", *Journal of the Air & Waste Management Association*, Vol. 53, 1052-1064, 2003.
- Giannakopoulos C. and Psiloglou B.E., "Trends in energy load demand for Athens, Greece: weather and non-weather related factors", *Climate Research*, Vol. 31, pp. 97-108, 2006.
- Zanis P., Katragkou E., Kanakidou M., Psiloglou B.E., Karathanasis S., Vrekoussis M., Gerasopoulos E., Lisaridis I., Markakis K., Poupkou A., Amiridis V., Melas D., Mihalopoulos N. and Zerefos C., "Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006", *Atmospheric Chemistry and Physics*, Vol. 7, pp. 6061-6073, 2007.
- Psiloglou B.E. and Kambezidis H.D., "Performance of the meteorological radiation model during the solar eclipse of 29 March 2006", *Atmospheric Chemistry and Physics*, Vol. 7, pp. 6047-6059, 2007.
- Psiloglou B.E., Giannakopoulos C., Majithia S. and Petrakis M., "Factors affecting electricity demand in Athens, Greece and London, UK: A comparative assessment", *Energy*, Vol. 34, σελ. 1855-1863, 2009
- Psiloglou B.E., Larissi I., Petrakis M., Paliatsos A., Antoniou A. and Viras L., "Case studies on summertime measurements of O₃, NO₂ and SO₂ with a DOAS system in an urban semi-industrial region in Athens, Greece", *Environmental Monitoring and Assessment*, Vol. 185(9), σελ. 7763-7774, 2013.

STUDENT AND POSTDOC SUPERVISION

Supervision of more than 10 M.Sc. and 20 B.Sc. students. I am supervising 1 PhD student.

RECENT RESEARCH FUNDING

- Study of the solar radiation availability in the Tripolis (Peloponnese) area. Funded by ROKAS Renewables (an Iberdrola Renewables Company). 2010-2012, PI, 44 K€
- Meteorological monitoring of the historical area of Megara. Funded by Municipality of Megara, 2008-2012. PI, 27 K€

OTHER

- Performance assessment of the new intergrated sensor SPN1 by Delta-T Devices (UK) for simultaneous measurements of global and diffuse radiation components at Athens area. In collaboration with Delta-T Devices company.
 - Reviewer for international journals : Solar Energy, Journal of Environmental Management, Sensors.
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