



# Stavros Solomos

**Date and place of birth:** 18-8-1976, Athens  
**Organization of primary employment:** University of Athens  
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**Title of primary employment:** PhD student / Researcher

## PROFESSIONAL EXPERIENCE

- March 2006 – Present : Atmospheric Modeling and Weather Forecasting Group (AM&WFG)  
Researcher / PhD Student
- Dec 2004 – Sep 2006 : Institute of Accelerating Systems and Applications (IASA)  
EU Project Management (FP6-FP7)

## EDUCATION

- PhD Candidate, University of Athens, Department of Physics, Atmospheric Modeling
- M.Sc., University of Athens, Department of Physics, Environmental Physics, 2003
- B.Sc., University of Athens, Department of Physics, 2001

## FOREIGN LANGUAGES

- English (Certificate of Proficiency in English, University of Cambridge)
- German (Zertifikat Deutch Goethe Institut)

## FIELDS OF SCIENTIFIC ACTIVITIES

- Atmospheric Modeling and Weather Forecasting
- Cloud Microphysics
- Air Pollution Modeling
- Severe Weather Phenomena

## PUBLICATIONS IN JOURNALS (3)

1. Solomos, S., Kallos, G., Kushta, J., Astitha, M., Tremback, C., Nenes, A., Levin, Z.: An integrated modeling study on the effects of mineral dust and sea salt particles on clouds and precipitation, *Atmos. Chem. Phys. Discuss.*, 10, 23959–24014, 2010, doi:10.5194/acpd-10-23959-2010
2. Kallos, G., Spyrou, C., Astitha, M., Mitsakou, C., Solomos, S., Kushta, I., Pytharoulis, I., Katsafados, P., Mavromatidis, E., Papantoniou, N. 'Ten-year operational dust forecasting - Recent model development and future plans', *Earth and Environmental Science* 7 012012 doi: 10.1088/1755-1307/7/1/012012, 2009
3. Mitsakou, C., Kallos, G., Papantoniou, N., Spyrou, C., Solomos, S., Astitha, M., and Housiadas, C.: Saharan dust levels in Greece and received inhalation doses, *Atmos. Chem. Phys.*, 8, 7181-7192, 2008

### **SELECTED CONFERENCE PRESENTATIONS (total: 16)**

1. Solomos S., J. Kushta, G. Kallos (2010) "Effects of natural and anthropogenic particles on cloud formation and precipitation – A modeling study". 31<sup>st</sup> NATO/CCMS International Technical Meeting on Air Pollution Modeling and its Applications (ITM) , Turin, Italy, September, 2010.
2. Kallos G., S. Solomos, J. Kushta (2010) "A modelling study on the effects of air quality on cloud processes and precipitation"; EGU General Assembly 2009, Vienna, Austria, 2-7 May, 2010
3. Solomos, S., Kallos, G., Kushta, J., Tremback, C., (2008) "A new modeling system for studying aerosol – cloud – radiation interaction processes"., *Eos Trans, AGU*, 89(53), Fall Meet. Suppl., Abstract A41E-0157, 2008

### **SELECTED TECHNICAL REPORTS (total: 6)**

1. G. Kallos, S. Solomos, J. Kushta, A. Tilloy (2008) : The impact of landuse modifications on urban microclimate. Environmental study for the new Athens Metropolitan Park at the vicinity of the former Athens Airport. Intermediate report prepared for the Nomarchy of Athens.
2. G. Kallos, M. Astitha, S. Solomos (2008) : Environmental Study for the Power Plant (Natural Gas) Installation at Thisvi-Domvraina in Viotia. Final Report prepared for Thisvi Power Generation Plant S.A.
3. G. Kallos, C. Spyrou, N. Papantoniou, C. Mitsakou, M. Astitha, S. Solomos and P. Katsafados, (2007) : Analysis of the Particulate Matter Exceedances in Greece. Period 2001-2004. Final Report Prepared for the Ministry of Environment City Planning and Public Work, June 2007.

### **AWARDS**

Young researchers EURASAP 1<sup>st</sup> award for the paper entitled: "Effects of natural and anthropogenic particles on cloud formation and precipitation - A modeling study" 31<sup>st</sup> NATO/CCMS International Technical Meeting on Air Pollution Modeling and its Applications, September 2010, Turin, Italy.