

MARIKA KOUKOULA

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EDUCATION

- PhD Student** University of Connecticut, Civil and Environmental Engineering
Advisor: Professor Emmanuel Anagnostou
- MS** University of Athens, Environmental Physics, Meteorology **September 2015**
Thesis: "Impact of Soil Moisture on Mesoscale Convective Systems"
Advisor: Professor George Kallos
- BS** Harokopio University, Department of Geography **April 2011**
Thesis: "Analysis of Spatiotemporal Variability of Soil moisture and Temperature for the Wider Area of Greece"
Advisor: Professor Petros Katsafados

EMPLOYMENT/RESEARCH EXPERIENCE

- January 2017- Present** **Graduate Research Assistant,**
University of Connecticut, Civil and Environmental Engineering.
 - Atmospheric Modeling and Weather Forecasting
 - Data Mining
 - Outage Prediction Modeling
- December 2015- December 2016** **Research Assistant,**
University of Athens, Atmospheric Modeling & Weather Forecasting Group.
 - Atmospheric Modeling and Weather Forecasting
 - Air Pollution Modeling
 - Hydrological Modeling and Flash-Flood Forecasting
- October 2009- February-2010** **Internship,**
Hellenic National Meteorological Service
 - Meteorological Data Analysis

HONORS AND AWARDS

- 2009** **Award and scholarship from State Scholarships Foundation**
For archiving best academic results in the second year of undergraduate studies

2010 **Award and scholarship from State Scholarships Foundation**
For archiving best academic results in the third year of undergraduate studies

LANGUAGES

English: Certificate of Competency in English, University of Michigan, 2005

Greek: Native Language

COMPUTER SKILLS

Programming: Matlab, R, Fortran, Shell scripting

Operating Systems: Unix, Linux, Windows

Atmospheric Models: RAMS, ICLAMS, WRF

Hydrological Models: CREST

Data Visualization Programs: ArcGIS, NCL, REVU

Data Handling: HDF, GRIB, NETCDF

PUBLICATIONS IN SCIENTIFIC JOURNALS

Marika Koukoura, Efthymios I. Nikolopoulos, Jonilda Kushta, Nikolaos S. Bartsotas, George Kallos, Emmanouil N. Anagnostou: Investigating the Complexity of Soil Moisture Feedback on Convective Precipitation: A Numerical Sensitivity Study Over Southern France, Atmospheric Research, Submitted 28 December 2017.

Christina Kalogeri, George Galanis, Christos Spyrou, Dimitris Diamantis, Foteini Baladima, Marika Koukoura, George Kallos: Assessing the European offshore wind and wave energy resource for combined exploitation, Renewable Energy, Accepted 5 August 2016.

PUBLICATIONS IN CONFERENCE PROCEEDINGS

Marika Koukoura, Efthymios I. Nikolopoulos, Zoi Dokou, Semu Moges, Amvrossios C. Bagtzoglou, Emmanouil N. Anagnostou, 2017: Evaluation of water cycle components in the Upper Blue Nile basin based on an ensemble of water resources reanalysis products, 5th International Conference on Reanalysis (ICR5), 13–17 November 2017, Rome, Italy

George Kallos, Platon Patlakas, Marika Koukoula, Christos Stathopoulos, and Daniel Rosenfeld, 2017: Sea salt production and its role in warm clouds formation, European Geosciences Union (EGU) General Assembly 2017, 23–28 April 2017, Vienna, Austria.

George Kallos, Athanasios Nenes, Platon Patlakas, Eleni Drakaki, Marika Koukoula, David Rosenfeld, Nikolaos Mihalopoulos, 2016: Aerosols in the Mediterranean Region and their role in cloud formation, 35th International Technical Meeting of Air Pollution Modelling and its Application (ITM) 2016, 3-7 October 2016, Chania, Crete, Greece

PARTICIPATION IN PROJECTS

NSF PIRE: Taming Water in Ethiopia - An Interdisciplinary Approach to Improve Human Security in a Water-Dependent Emerging Region.

Earth2Observe: “Global Earth Observation for Integrated Water Resource Assessment” is a collaborative project funded under the DG Research FP7 programme.

WASSF2: Development of a Weather Analysis and Sea State Forecast system for Saudi Arabia, funded by Saudi Aramco.