

CURRICULUM VITAE

Dimitrios Katsanos

PERSONAL INFORMATION

NAME: DIMITRIOS

SURNAME: KATSANOS

DATE OF BIRTH: 04/06/1974

CONTACT

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EDUCATION

09/1993 - 06/1998 : BSc PHYSICS DEPT. UNIVERSITY OF ATHENS

11/1998 - 03/2001: MSc "ENVIRONMENTAL PHYSICS", PHYSICS DEPT. UNIVERSITY OF ATHENS

02/2004 - 05/2007: PhD PHYSICS DEPT. UNIVERSITY OF PATRAS

THESIS TITLE: "STUDY OF INTENSE WEATHER PHENOMENA, USING DATA FROM ATMOSPHERIC ENVIRONMENT MONITORING SATELLITES AND ATMOSPHERIC ELECTRICAL ACTIVITY"

LANGUAGES

ENGLISH (C1)

SPANISH (C1)

SKILLS

FORTRAN

UNIX, LINUX

WRF MODEL

GrADS, NCL, CDO, R, MATLAB

Mac OS, WINDOWS, OFFICE

WORK EXPERIENCE

1998-2000 LABORATORY OF METEOROLOGY – PHYSICS DEPT. UNIVERSITY OF ATHENS

2000-2001 PHYSICS CLASSES – PRIVATE

2002-2003 LABORATORY OF PHYSICS – TECHNICAL SCHOOL (ASPETE)

2002-2005 RESEARCH ASSOCIATE – NATIONAL OBSERVATORY OF ATHENS

2006- SCIENTIFIC TECHNICAL STAFF – NATIONAL OBSERVATORY OF ATHENS

2011-2013 POSTDOCTORAL RESEARCHER (REMOTE SENSING OF PRECIPITATION) - UNIVERSITY OF CASTILLA-LA MANCHA (TOLEDO)

PUBLICATIONS

PUBLICATIONS IN PEER REVIEWED JOURNALS /BOOK CHAPTERS

1. **D. Katsanos**, K. Lagouvardos, V. Kotroni and G. J. Huffmann “Statistical evaluation of MPA-RT high resolution precipitation estimates from satellite platforms over the central and eastern Mediterranean”, Geophysical Research Letters, Vol. 31, 2004.
2. **D. Katsanos**, N. Viltard, K. Lagouvardos and V. Kotroni “Performance of a rain retrieval algorithm using TRMM data in the Eastern Mediterranean”. Advances in Geosciences, Vol.7, 2006.
3. **Katsanos, D.**, Lagouvardos, K., Kotroni, V., and Argiriou, A.: Combined analysis of rainfall and lightning data produced by mesoscale systems in the central and eastern Mediterranean. Atmos. Res. Vol. 83, 55-63, 2007
4. **Katsanos D.**, Lagouvardos K., Kotroni V., and Argiriou A.: The Relationship of lightning activity with microwave brightness temperatures and spaceborne radar reflectivity profiles in the Central and Eastern Mediterranean J .Appl. Meteor. & Climatol., 46, 1901 – 1912, 2007.
5. **Katsanos D.**, Kotroni V., and Lagouvardos K.: Lightning in the Mediterranean in Relation with Cloud Microphysical Parameters. Lightning: Principles, Instruments and Applications, Springer, pp 433-446, 2008 (book chapter).
6. **Katsanos D.**, Lagouvardos K., and Kotroni V.: Relationship between lightning and model simulated microphysical parameters over the central and eastern Mediterranean. Natural Hazards and Earth System Sciences, 9, 1719-1726, 2009.
7. M. C. Llasat, M. Llasat-Botija, M. A. Prat, F. Porcu, C. Price, A. Mugnai, K. Lagouvardos, V. Kotroni, **D. Katsanos**, S. Michaelides, Y. Yair, K. Savvidou and K. Nicolaides “High-impact

- floods and flash floods in Mediterranean countries: The FLASH preliminary database". *Advances in Geosciences*, 23, pp. 47-55. (2010).
8. C. Price, Y. Yair, A. Mugnai, K. Lagouvardos, M. C. Llasat, S. Michaelides, S. Dietrich, E. Galanti, L. Garrote, **D. Katsanos**, V. Kotroni, M. Llasat, L. Mediero, E. Morin , K. Nicolaides, K. Savvidou, B. Ziv "The FLASH Project: Using lightning data to better understand and predict flash floods". *Environmental Science and Policy*, Vol. 14, pp. 898-911. (2011).
 9. C. Price, Y. Yair, A. Mugnai, K. Lagouvardos, M. C. Llasat, S. Michaelides, U. Dayan, S. Dietrich, E. Galanti, L. Garrote, N. Harats, **D. Katsanos**, M. Kohn, V. Kotroni, M. Llasat-Botija, B. Lynn, L. Mediero, E. Morin , K. Nicolaides, S. Rozalis, K. Savvidou, B. Ziv "Using lightning data to better understand and predict flash floods in the Mediterranean". *Surveys in Geophysics*, Vol. 32, pp. 733-751. (2011).
 10. **D. Katsanos**, E. García-Ortega, M. de Castro, E. Arias, and F. J. Tapiador "High-resolution, near real time simulation of microwave radiance using a simple land-cover based emissivity prior". (2013, submitted).
 11. F. J. Tapiador, A. Beranghi, Z. S. Haddad, **D. Katsanos**, and M. de Castro "Disruptions in the Historical Global Precipitation Cycles in Twenty CMIP5 Models: Attribution to Anthropogenic Forcing" (2013, submitted)

PRESENTATIONS IN CONFERENCES

1. **Δ. Κατσάνος**, K. Λαγουβάρδος, E. Defer και B. Κοτρώνη "Χρήση δεδομένων βροχόπτωσης και δεδομένων ηλεκτρικών εκκενώσεων για τη μελέτη μέσης κλίμακας συστημάτων στην περιοχή της κεντρικής και ανατολικής μεσογείου" 7^ο Πανελλήνιο (Διεθνές) Συνέδριο Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας (Λευκωσία 28-30/09/2004).
2. **D. Katsanos**, K. Lagouvardos, E. Defer, V. Kotroni and A. Argiriou "Correlation of Lightning Activity with Brightness Temperatures in the Mediterranean Sea". EGU General Assembly (Βιέννη, 24-29/4/2005).
3. **D. Katsanos**, K. Lagouvardos, E. Defer, V. Kotroni and A. Argiriou "Correlation of Lightning Activity with Brightness Temperatures and Radar Reflectivity Profiles in the Mediterranean". 7th Plinius Conference on Mediterranean Storms (Ρέθυμνο, 5-7/10/2005).
4. **D. Katsanos**, N. Viltard, K. Lagouvardos and V. Kotroni "Performance of a rain retrieval algorithm using TRMM data in the Eastern Mediterranean". 7th Plinius Conference on Mediterranean Storms (Ρέθυμνο, 5-7/10/2005).
5. **Δ. Κατσάνος**, K. Λαγουβάρδος, B. Κοτρώνη και A. Αργυρίου "Συσχέτιση της ηλεκτρικής δραστηριότητας με θερμοκρασίες φωτεινότητας και προφίλ ανακλαστικότητας στη Μεσόγειο" 8^ο Πανελλήνιο (Διεθνές) Συνέδριο Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας (Αθήνα 23-25/05/2006).
6. **D. Katsanos**, K. Lagouvardos, V. Kotroni and A. Argiriou "Correlation of Lightning Activity with Dynamic Parameters of mesoscale systems in the Central and Eastern Mediterranean". 8th Plinius Conference on Mediterranean Storms (Νεκρά Θάλασσα, Ισραήλ, 17-20/10/2006).
7. **D. Katsanos**, K. Lagouvardos, V. Kotroni and A. Argiriou "Lightning Activity in the Central and Eastern Mediterranean and its relationship with Cloud Microphysical Characteristics and Radar Reflectivity, measured by Spaceborne Sensors". Συμμετοχή στο συνέδριο EGU General Assembly (Βιέννη, 26-29/4/2007).
8. **D. Katsanos**, K. Lagouvardos and V. Kotroni, 2007: "Relationship between cloud-to-ground lightning activity and cloud ice distribution profiles produced by MM5 model over the eastern Mediterranean". 9th EGU Plinius Conference on Mediterranean Storms (Varenna – Italy, 10 -13 /09/ 2007).

9. **Δ.Κατσάνος**, Β. Κοτρώνη και Κ. Λαγουβάρδος, 2008: «Σχέση μεταξύ ηλεκτρικής δραστηριότητας νεφών – εδάφους και κατακόρυφης κατανομής παγοκρυστάλλων παραγόμενης από μοντέλο πρόγνωσης καιρού πάνω από την Ανατολική Μεσόγειο», 9ο Πανελλήνιο (Διεθνές) Συνέδριο Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας.(Θεσσαλονίκη, 28-30 /5/ 2008).
10. **D. Katsanos**, V. Kotroni and K. Lagouvardos, 2008: “Relationship between observed cloud-to-ground lightning from ZEUS network and simulated cloud microphysics parameters from MM5 model over the central and eastern Mediterranean”. 10th EGU Plinius Conference on Mediterranean Storms (Nicosia – Cyprus, 22-24 /09/ 2008).
11. **D. Katsanos**, K. Lagouvardos and V. Kotroni, 2009: “Study of the temporal and spatial relationship between lightning and rainfall in thunderstorms over Greece”. 11th EGU Plinius Conference on Mediterranean Storms (Barcelona – Spain, 8-10 /09/ 2009).
12. Κ. Λαγουβάρδος, Β. Κοτρώνη, Σ. Βουγιούκας, . **Κατσάνος**, Ι. Κωλέτσης, Σ. Λυκουδης και Ν. Μαζαράκης, 2010: «Δίκτυο Αυτόματων Μετεωρολογικών Σταθμών του Εθνικού Αστεροσκοπείου Αθηνών: Παρούσα Κατάσταση και Προοπτικές», 10ο Πανελλήνιο (Διεθνές) Συνέδριο Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας.(Πάτρα, 25-28 /5/ 2010).
13. **D. Katsanos**, K. Lagouvardos, V. Kotroni and H. Feidas, 2010: “Use of METEOSAT data for the investigation of pre-convective conditions of warm season thunderstorms over the Southeastern Europe”. 12th EGU Plinius Conference on Mediterranean Storms (Corfu – Greece, 1-4 /09/ 2010).
14. E. García-Ortega, F. J. Tapiador, L. López, **D. Katsanos** and J.L. Sánchez, 2011: “A GPM simulator to improve the NWP of severe events”. 6th European Conference on Severe Storms (Palma de Mallorca, Spain, 3-7/10/2011).
15. F. J. Tapiador, M. de Castro, F. Cuartero, E. Arias, D. Cazorla, J. Pardo, J. L. Sánchez, E. García-Ortega, C. Marcos, M. A. Martinez, G. Sánchez, R. Checa, **D. Katsanos** and W. Petersen, 2011: “Spanish GPM Activities”. NASA, PMM Science Team Meeting. (Denver – USA, 7-10/11/2011).
16. **D. Katsanos**, F.J. Tapiador, E. García-Ortega, M. de Castro, D. Cazorla and E. Arias, 2013: “Simulation of Microwave and infrared Radiances Using WRF+SDSU”. NASA, PMM Science Team Meeting. (Annapolis – USA, 18-22/03/2013).
17. F. J. Tapiador, E. Arias, F. Cuartero, D. Cazorla, J. Pardo, **D. Katsanos**, A. Navarro, and M. de Castro, 2013: “Estimating Renewable Energy Potential Through Numerical Models in Present and Changing Climates”. Energy and Environment Knowledge Week. (Toledo, Spain, 20-22/11/2013).

PARTICIPATION IN RESEARCH PROJECTS

1. “Improvement of the forecasting abilities of atmospheric and climatic parameters in regional and local scale in the area of Eastern Mediterranean”. Competitiveness – Promotion in Technological Development and Research – Excellence in Research Centers, Action 3.3.1, 2002 – 2006. Member of the research team.
2. “Weather routing dans la Méditerranée **WERMED**”. Interreg III, 2005-2007. Member of the research team.
3. “**FLASH** - Observations, Analysis and Modeling of Lightning Activity in Thunderstorms, for use in Short Term Forecasting of Flash Floods. FP6 EU in the action: Global Change and Ecosystems, 2007-2009. Member of the research team.
4. “**NETMARIMED**”. Interreg III, 2008, Member of the research team.