

Konstantinos LAGOUVARDOS

PERSONAL INFORMATION

DATE - PLACE OF BIRTH: 22 May 1964 in Athens, Greece
PROFESSION: Research Director
PROFESSIONAL ADDRESS: National Observatory of Athens
Institute of Environmental Research Lofos Koufou,
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ACADEMIC QUALIFICATIONS

- 2001: Graduate, National School of Public Administration, Department of General Administration.
- 1992: Ph. D. thesis in Meteorology, entitled: 'Dynamics of active precipitating systems observed during the European field experiment FRONTS 87'. University Pierre et Marie Curie, Paris France.
- 1989: DEA in Meteorology and Oceanography. University Pierre et Marie Curie, Paris France.
- 1988: B. Sc in Physical Sciences. National University of Athens, Greece.

PROFESSIONAL EXPERIENCE

- 2011 – today: Director of Research IERSD/National Observatory of Athens, Greece
- 2006 – 2011: Associate Researcher IERSD/National Observatory of Athens, Greece
- 2002 – 2006: Assistant Researcher IERSD/National Observatory of Athens, Greece
- 1999 – 2002: Research Associate, IERSD/National Observatory of Athens, Greece
- 2001 – 2002: General Secretariat for Research and Technology, Scientific Administrator, Division of International Affairs (CERN, ESA)
- 1998-1999: Coordinator of the Organization of the MSc “Science and Technology of Water Resources” of the National Technical University of Athens.
- 1993-1999: Research Scientist, Laboratory of Meteorology, School of Physics, University of Athens, Greece.
- 1992-1993: Post-doctoral research (funded by ESA) in CRPE/CNRS, France.

AREAS OF EXPERTISE

- Dynamic meteorology, numerical weather prediction, lightning meteorology, climatology and dynamics of severe weather phenomena, weather monitoring networks.
- ❑ Scientific coordinator of operational weather prediction at NOA based on BOLAM model and of related activities
 - ❑ Scientific coordinator of the National Observatory of Athens Automated Network of surface weather stations (NOAAN, 430 stations by December 2021)
 - ❑ Scientific coordinator of the content of www.meteo.gr

HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE

- ❑ French Ministry of Research and Development Fellowship, 1989-1992.
- ❑ National Representative in the following EU COST Actions: COST 76 “Development of VHF/UHF wind profilers and vertical sounders for use in European observing systems”, COST 78 “Development of nowcasting techniques”, COST 710 “Harmonisation in the pre-processing of meteorological data for dispersion model”.

- ❑ Member of the WG of the General Secretariat for Research and Technology of the collaboration of Greece with ESA (2002-2003).
- ❑ Member of the French, American and Royal Meteorological Societies.
- ❑ Member of the scientific Committee of the «MEDITERRANEAN SCHOOL ON MESOSCALE METEOROLOGY», Sardinia, Italy, 2004.
- ❑ Coordinator of Working Group 4 on “Intense sea-atmosphere interactions” of “HYdrological cycle in the Mediterranean Experiment – HyMeX” international project. 2010-2015.
- ❑ Coordinator of the Science Team–Lightning” of HyMeX international project (www.hymex.org), 2010-2018.
- ❑ 2020-2018: President of the Sectorial Scientific Council on the Environment of the National Council for Research & Technology (<http://www.esek.org.gr>).
- ❑ 2021-2024: Member of the Science Steering Committee of the Extreme Heat Resilience Alliance, Adrienne Arsht-Rockefeller Foundation Resilience Center

OTHER ACTIVITIES

Editor

- ❑ Guest Editor of the EGU journal *Advances in Geosciences*, 2006.
- ❑ Guest Editor of the “*Natural Hazards and Earth System Sciences*”, 2010.
- ❑ Associate Editor of the journal “*Atmospheric Research*”, since 2014.
- ❑ Member of the Editorial Board of the journal “*Atmosphere*”, since 2019.

Reviewer of Scientific proposals

GSRT, EU (5th, 6th, Framework Program), Cyprus (Institute for Promotion of Research).

2017: Member of the committee on the “Environment”, ELIDEK-PostDoc Call.

2021: Member of the committee on the “Environment”, ELIDEK-PhD Call.

Reviewer of Institutes

2014: European Science Foundation (ESF), Portuguese Foundation for Science and Technology (FCT) in the frame of its periodic evaluation of Research Units: Centre for Interdisciplinary Development and Research on Environment, Applied Management and Space (DREAMS).

Organisation of International Conferences

1997: Member of the Organising Committee of the international Symposium "Symposium on Regional Weather Prediction on Parallel Computer Environments", 15-17 October 1997, Athens.

2000, 2004: Convenor at the European Geophysical Union General Assembly

2005: Co-chair of the Organising Committee of the “7th Plinius Conference on Mediterranean Storms”, 5-7 October, Rethymno, Crete, Greece.

2010: Co-chair of the Organising Committee of the “12th Plinius Conference on Mediterranean Storms”, 1-4 September, Corfu, Greece.

2012, 2014, 2016, 2018: Member of the Scientific Committee of the International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2012 (Athens, 29 May – 1 June 2012), COMECAP 2014 (Heraklion, 28-31 May 2014), COMECAP 2016 (Thessaloniki, 19-21 September 2016), COMECAP 2018 (Alexandroupoli, 15-17 October 2018)

2015: Chair of the Scientific Committee of the “9th Hymex Workshop, 21-25 September, Mykonos, Greece.

- 2016: Member of the Scientific & Programme Committee of the 15th Plinius Conference on Mediterranean Risks, Taormina, 8-11 June 2016.
- 2019: Member of the Organising Committee of CFMIP 2019 Meeting on Clouds, Precipitation, Circulation, and Climate Sensitivity, 30 Sep – 4 Oct, Mykonos, Greece.
- 2024: Co-chair of 18th the Plinius Conference on Mediterranean Risks, EGU Topical Conference, Chania, Greece, 30 September - 3 October 2024.

Supervision of early careers of researchers

Supervisor of post-doc researchers

- Dr. Ioannis Koletsis (2011-now): Research Associate at NOA
- Dr. Nikos Mazarakis (2010-2015): Research Associate at NOA, now at the Private Sector (STORM-GEO Greel Offices)
- Dr. Theodore Giannaros (2014-2015, 2017-2020): Research Associate at NOA, now Assist. Researcher at NOA.
- Dr. Athanasios Karagiannidis (2014-2017): Research Associate at NOA
- Dr. Christos Giannaros (2018-2021): Research Associate at NOA
- Dr. Elisavet Galanaki (2020-2023): Research Associate at NOA
- Dr. Stavros Dafis (2020-2024): Research Associate at NOA
- Dr. Giorgos Fragkoulidis (2024-now): Research Associate at NOA

Supervision of PhD thesis

- 2003-2007: Dr. D. Katsanos, Dept. of Physics, Univestity of Patras, now Research Scientist Grade B IERSD/NOA
- 2007-2010: Dr. I. Koletsis, Dept. of Physics, University of Ioannina, now Post-Doc at IERSD/NOA
- 2014-2018: Elisavet Galanaki, Dept. of Physics, University of Patras

Co-supervision of PhD thesis (Member of advisory committee)

- 2013-2017: P. Kosmopoulos, Dept. of Physics, Aristotle University of Thessaloniki
- 2014-2018: E. Proestakis, University of Patras
- 2017-2020: S. Dafis, Ecole Polytechnique, France
- 2017-now: P. Kazamias, School of Forestry & Natural Environment, Aristotle University of Thessaloniki, Greece
- 2019-now: I. Rizavas, School of Medicine, University of Athens, Greece

Examinator/reviewer of PhD thesis (Member of examining committee)

- 2005: Catherine Heyraud, «Impacts des tempetes des moyennes latitudes sur l'environnement», Universite des Versailles, France.
- 2008: Luis Fita, «Numerical study of intense cyclogenesis events in the Mediterranean basin», Universitat de les Illes Balears, Spain (reviewer).
- 2011: Emilie Bresson, «Mécanismes de formation des systèmes convectifs quasi-stationnaires en Méditerranée nord-occidentale. Application au cas du 15 juin 2010 sur le Var », Université de Toulouse, France.

2015: Francois Ribaud «Etude tridimensionnelle de l'activite electrique, microphysique et dynamique d'une ligne de grain observee pendant la campagne HYMEX »,
Universite de Toulouse

Examples of leadership in industrial innovation or design.

- Co-coordinator (with Dr. K. Lagouvardos) of the concept, development and operation of **www.meteo.gr**. This activity integrates specialized forecasts and observations over Greece, it was founded in 2002 and during the last years is constantly among the top-5 (in terms of average daily visitors) sites in the Greek internet (ref: www.ened.gr). This activity has been self-financed since 2006 and has attracted funding from the private sector that exceeds in total 4.000.000 Euros.
- Coordinator of the concept, design and development of the today's largest network of automated surface meteorological stations (NOAAN). The network started in 2005 and comprises >430 stations in December 2021. A large number of data has been distributed responding to the needs of the scientific community and of the private sector.

CITATION REPORT (WEB OF SCIENCE, 3/2025)

37

H-Index

4,495

Sum of Times Cited

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Lagouvardos K. Lemaitre Y. and Scialom G, 1992: "Mesoscale ageostrophic circulations of two fronts observed during the FRONTS 87 experiment. Diagnosis and interpretation". *Meteorology and Atmospheric Physics*, **48**, 293-307.
2. Lagouvardos K. Lemaitre Y. and Scialom G, 1993: "Dynamical structure of a wide cold frontal cloudband observed during the FRONTS 87 experiment". *Quarterly Journal of Royal Meteorological Society*, **119**, 1291-1319.
3. Lagouvardos K. Lemaitre Y. and Scialom G, 1993: "Importance of diabatic processes on ageostrophic circulations observed during the FRONTS 87 experiment". *Quarterly Journal of Royal Meteorological Society*, **119**, 1321-1345.
4. Kotroni V. and Lagouvardos K., 1993: "Low-level jet streams associated with atmospheric cold fronts - seven case studies from the FRONTS87 experiment". *Geophysical Research Letters*, **20**, 1371-1374.
5. Lagouvardos K., Lemaitre Y., 1994: "Influence of strong wind and humidity gradients on frontal ageostrophic circulations". *Quarterly Journal of Royal Meteorological Society*, **120**, 1513-1533.
6. Kotroni V., C. Amory-Mazaudier, and K. Lagouvardos, 1994: "Doppler sodar observations of a cold front during the PYREX experiment: orographic effects". *International Journal of Remote Sensing*, **15**, 489-497.
7. Kotroni V. and Lagouvardos K., 1994: "Dynamic structure and evolution of a prefrontal boundary layer: Three case studies of FRONTS87". *Atmospheric Research*, **35**, 55-70.

8. Lagouvardos K. and Kotroni V., 1995: "Upper-level frontogenesis: two case-studies from the FRONTS 87 experiment". *Monthly Weather Review*, **123**, 1197-1206.
9. Kotroni V., Lagouvardos K. and Petitdidier M., 1995: "A comparison of wind profiler and sounding observations during a frontal event". *International Journal of Remote Sensing*, **16**, 1685-1695.
10. Lagouvardos K., Kotroni V., Dobricic S., Nickovic S. and Kallos G., 1996: "On the storm of 21-22 October 1994 over Greece: Observations and model results". *Journal of Geophysical Research*, **101** (D21), 26217-26226.
11. Lagouvardos K., Kotroni V., and Kallos G., 1996: "Exploring the effects of different types of model initialisation: simulation of a severe air-pollution episode in Athens, Greece". *Meteorological Applications*, **3**, 147-155.
12. Kotroni V., Kallos G., and Lagouvardos K., 1997: "Convergence zones over the Greek Peninsula and associated thunderstorm activity". *Quarterly Journal of Royal Meteorological Society*, **123**, 1961-1984.
13. Peleg, M., M. Luria, G. Sharf, A. Vanger, G. Kallos, V. Kotroni, K. Lagouvardos, and M. Varinou, 1997: "Observational Evidence of an Ozone Episode over the Greater Athens Area". *Atmospheric Environment*, **31**, 3969-3983.
14. Kallos G., V. Kotroni, K. Lagouvardos, and A. Papadopoulos, 1998: "On the long-range transport of air pollutants from Europe to Africa". *Geophysical Research Letters*, **25**, No 5, 619-622.
15. Kotroni V., Lagouvardos K., G. Kallos and Y. Lemaitre, 1998: "Modelling study of the IOP2 cold front of FRONTS 87 Experiment". *Meteorological Applications*, **5**, 297-306.
16. Lagouvardos K., V. Kotroni, and G. Kallos, 1998: "An extreme cold surge over the Greek Peninsula". *Quarterly Journal of Royal Meteorological Society*, **124**, 2299-2328.
17. Kotroni V., G. Kallos, K. Lagouvardos, M. Varinou, and R. Walko, 1999: "Numerical simulations of the meteorological and dispersion conditions during an air pollution episode over Athens, Greece". *Journal of Applied Meteorology*, **38**, 432-447.
18. Kotroni V., K. Lagouvardos, G. Kallos, and D. Ziakopoulos, 1999: "Severe flooding over central and southern Greece associated with pre-cold frontal orographic lifting". *Quarterly Journal of Royal Meteorological Society*, **125**, 967-991.
19. Kotroni V., K. Lagouvardos and G. Kallos, 1999: "Model investigation of a cloud band associated with a cold front over Eastern Mediterranean". *Physics and Chemistry of the Earth*, Vol. 24, **6**, 633-636.
20. Lagouvardos K., V. Kotroni, S. Nickovic, D. Jovic, and G. Kallos, 1999: "Observations and model simulations of a winter sub-synoptic vortex over the Central Mediterranean". *Meteorological Applications*, **6**, 371-383.
21. Lagouvardos K. And V. Kotroni, 1999: "Aspects of the 25-26 March 1998 storm over Greece " *Weather*, **54**, 154-160.
22. Lagouvardos, K., V. Kotroni., G. Kallos, and S.T. Rao, 2000: "An analysis of the meteorological and air quality conditions during an extreme ozone episode over the Northeastern USA". *International Journal of Environment and Pollution*, **14**, 364-373.
23. Varinou M., G. Kallos, V. Kotroni, and K. Lagouvardos, 2000: "The influence of the lateral boundaries and background concentrations on limited area photochemical model simulations". *International Journal of Environment and Pollution*, **14**, 354-363.
24. Lagouvardos K., and Kotroni V., 2000: "Use of METEOSAT Water-Vapour images for the diagnosis of a vigorous stratospheric intrusion over Central Mediterranean". *Meteorological Applications*, **7**, 205-210.

25. Wanger A., Peleg M., Sharf G., Mahrer Y., Dayan U., Kallos G., Kotroni V., Lagouvardos K., Varinou M., Papadopoulos A., and Luria M., 2000: "Some observational and modelling evidence of long range transport of air pollutants from Europe towards the Israeli coast". *Journal of Geophysical Research*, Vol **105**, No D6, 7177-7186.
26. Kotroni V. and K. Lagouvardos, 2001: Precipitation forecast skill of different convective parameterization and microphysical schemes: application for the cold season over Greece. *Geophysical Research Letters*, Vol. **108**, No 10, 1977-1980.
27. Kotroni V., K. Lagouvardos and D. Lalas, 2001: The effect of Crete island on the Etesian winds over the Aegean Sea. *Quarterly Journal of Royal Meteorological Society*, **127**, 1917-1938.
28. Feidas C., C. Cartalis, K. Lagouvardos, 2002: Temporal simulation of diurnal temperature and relative humidity evolution at a forested mountainous site in Attica, Greece. *Int. J. of Wildland Fire*, **11**, 1-12.
29. Anadranistakis M., K. Lagouvardos, V. Kotroni and K. Skouras, 2002: Combination of Kalman filter and an empirical method for the correction of near-surface temperature forecasts: application over Greece. *Geophysical Research Letters*, Vol.29, No. **16**, 1776-1779.
30. Koussis A., K. Lagouvardos, K. Mazi, V. Kotroni, D. Sitzmann, J. Lang, H. Zaiss, A. Buzzi, and P. Malguzzi, 2003: Flood forecasts for an urban basin with an integrated hydro-meteorological model. *Journal of Hydrological Engineering*, **8**, 1-11.
31. Lagouvardos K., V. Kotroni, A. Koussis, C. Feidas, A. Buzzi, P. Malguzzi, 2003: The meteorological model BOLAM at the National Observatory of Athens: assessment of two-year operational use. *J. Appl. Meteor.*, **42**, 1667-1678.
32. Anadranistakis M., K. Lagouvardos, V. Kotroni, H. Elefteriadis, 2004: Correcting temperature and humidity forecasts using kalman filtering: potential for agricultural protection in Northern Greece. *Atmospheric Research*, **71 (3)**, 115-125.
33. Katsanos D., K. Lagouvardos, V. Kotroni and G.J. Huffmann, 2004: Statistical evaluation of MPA-RT high-resolution precipitation estimates from satellite platforms over the Central and Eastern Mediterranean. *Geophysical Research Letters*, **31**, L06116.
34. Kotroni V. and K. Lagouvardos, 2004: Evaluation of MM5 high-resolution real-time forecasts over the urban area of Athens, Greece. *J. Appl. Meteor.*, **43**, 1666-1678.
35. Medaglia C. M., C. Adamo, F. Baordo, S. Dietrich, S. Di Michele, V. Kotroni, K. Lagouvardos, A. Mugnai, S. Pinori, E. A. Smith, G. J. Tripoli, 2005: Comparing microphysical/dynamical outputs by different cloud resolving models: impact on passive microwave precipitation retrieval from satellite. *Advances in Geosciences*, **2**, 195-199.
36. Lagouvardos K. and V. Kotroni, 2005: Improvement of high resolution weather forecasts through humidity adjustment, based on satellite data. *Quarterly Journal of Royal Meteorological Society*, **131**, 2695-2712.
37. Feidas, H., K. Lagouvardos, V. Kotroni, and C. Cartalis, 2005: Application of two satellite infrared techniques in support of precipitation forecasts of a NWP model. *Int. J. Remote Sensing*, **26**, 5393-5417.
38. Defer E., K. Lagouvardos, and V. Kotroni, 2005: Lightning Activity in Eastern Mediterranean Region" *JGR-Atmospheres*, **110**, D24210.
39. Kotroni V., K. Lagouvardos, E. Defer, S. Dietrich, F. Porcù, C.M. Medaglia, and M. Demirtas, 2006: The Antalya 5 December 2002 storm: Observations and model analysis. *J. Appl. Meteor.*, **45**, 576-590.
40. Lagouvardos K., V. Kotroni, E. Defer, 2006: Synoptic environment related to rapid cyclogenesis in the Eastern Mediterranean, *Advances in Geosciences*, **7**, 115-119.

41. Mazarakis, N., V. Kotroni, K. Lagouvardos, S. Music, S. Nickovic, 2006: Impact of the assimilation of conventional data on the quantitative precipitation forecasts in the Eastern Mediterranean, *Advances in Geosciences*, **7**, 237-242.
42. Katsanos, D., N. Viltard, K. Lagouvardos, V. Kotroni, 2006: Performance of a rain retrieval algorithm using TRMM data in the Eastern Mediterranean, *Advances in Geosciences*, **7**, 321-325.
43. Katsanos D., K. Lagouvardos, V. Kotroni and A. Argiriou, 2007: Combined analysis of rainfall and lightning data produced by mesoscale systems in the Central and Eastern Mediterranean, *Atmospheric Research*, **83**, 55-63
44. Akylas E., V. Kotroni and K. Lagouvardos, 2007: Sensitivity of high resolution operational weather forecasts to the choice of the planetary boundary layer scheme, *Atmospheric Research*, **84**, 49-57.
45. Mirasgedis S., Y. Sarafidis, E. Georgopoulou, V. Kotroni, K. Lagouvardos, and D. P. Lalas, 2007: Modeling framework for estimating impacts of climate change on electricity demand at regional level: Case of Greece *Energy Conversion and Management* **48**, 1737-1750.
46. Feidas H., T. Kontos, N. Soulakellis, K. Lagouvardos, 2007: A GIS tool for the evaluation of the precipitation forecasts of a numerical weather prediction model using satellite data. *Computers and Geosciences*, **33** (8), pp. 989-1007.
47. Lagouvardos K., and V. Kotroni, 2007: TRMM and lightning observations of a low-pressure system over the Eastern Mediterranean. *Bulletin of the American Meteorological Society*, **88**, 1363–1367.
48. Katsanos D., Lagouvardos K., Kotroni V. and Argiriou A., 2007: Relationship of lightning activity with microwave brightness temperatures and spaceborne radar reflectivity profiles in the Central and Eastern Mediterranean. *J. Appl. Meteor.*, **46**, 1901-1912.
49. Lagouvardos K., V. Kotroni and E. Defer, 2007: The 21-22 January 2004 explosive cyclogenesis over the Aegean Sea: observations and model analysis. *Quarterly Journal of Royal Meteorological Society*, **133**, 1519-1531.
50. Mugnai A., Eric A. Smith, Gregory J. Tripoli, Stefano Dietrich, Vassiliki Kotroni, Kostas Lagouvardos, and Carlo M. Medaglia, 2008: Explaining discrepancies in passive microwave cloud-radiation databases in microphysical context from two different cloud-resolving models *Meteorology and Atmospheric Physics*, **101**, 127-145.
51. Kotroni V., Lykoudis S, Lagouvardos K., and Lalas D, 2008: A fine resolution regional climate change experiment for the Eastern Mediterranean: analysis of the present climate simulations. *Global and Planetary Change*, **64**, 93-104.
52. Kotroni V., and K. Lagouvardos, 2008: Lightning occurrence in relation with elevation, terrain slope and vegetation cover over the Mediterranean. *JGR-Atmospheres*, **113**, D21118, doi:10.1029/2008JD010605.
53. Bloom A, V. Kotroni and K. Lagouvardos, 2008: Climate change impact of wind energy availability in the Eastern Mediterranean using the regional climate model PRECIS *Natural Hazards and Earth System Sciences* (NHESS), **8**, 1249-1257
54. Mazarakis N., V. Kotroni, K. Lagouvardos and A.A. Argiriou, 2008: Storms and Lightning Activity in Greece during the Warm Periods of 2003-2006. *Journal of Applied Meteorology and Climatology*, **47**, 3089–3098.
55. Vincendon B., V. Ducrocq, S. Dierer, V Kotroni, M. Lelay, M. Milelli, A. Quesney, G-M. Saulnier, D. Rabuffetti, L. Bouilloud, K. Chancibault, S. Anquetin, K. Lagouvardos, P. Steiner, 2009: Flash Flood Forecasting Within The Preview Project : Value Of High- Resolution Hydrometeorological Coupled Forecast, *Meteorology and Atmospheric Physics*, **103** (1-4), pp. 115-125

56. Mazarakis, N., V. Kotroni, K. Lagouvardos and A.A. Argiriou, 2009: The sensitivity of numerical forecasts to convective parameterization during the warm period and the use of lightning data as an indicator for convective occurrence. *Atmospheric Research* 94 (4), pp. 704-714.
57. Koletsis I., K. Lagouvardos, V. Kotroni, and A. Bartzokas, 2009: Numerical study of a downslope windstorm in Northwestern Greece. *Atmospheric Research* 94 (2), pp. 178-193.
58. Katsanos D.K., K. Lagouvardos and V. Kotroni, 2009: Relationship between lightning and model simulated microphysical parameters over the central and eastern Mediterranean, *Natural Hazards and Earth System Sciences* (NHESS), 9, 1719-1726.
59. Lagouvardos K., V. Kotroni, H-D Betz and K. Schmidt, 2009: A comparison of lightning data provided by ZEUS and LINET networks over Western Europe. *Natural Hazards and Earth System Sciences*, 9, 1713-1717.
60. Koletsis I., K. Lagouvardos, V. Kotroni and A. Bartzokas, 2009: The interaction of northern wind flow with the complex topography of Crete Island – Part I: Observational study, *Natural Hazards and Earth System Sciences*, 9, 1845-1855
61. Yoav Yair, Barry Lynn, Colin Price, Vassiliki Kotroni, Konstantinos Lagouvardos, Efrat Morin, Alberto Mugnai and Maria-Carmen Llasat, 2010: Predicting the potential for lightning activity in Mediterranean storms based on the Weather Research and Forecasting (WRF) model dynamic and microphysical fields. *JGR-Atmospheres*, 115, D04205, doi:10.1029/2008JD010868.
62. Bartzokas A., V. Kotroni, K. Lagouvardos, C.J. Lolis, A. Gkikas, and M.I. Tsirogianni, 2010: Weather forecast in north-western Greece: RISKMED warnings and verification of MM5 model. *Natural Hazards and Earth System Sciences*, 10, 1–12, 2010
63. Delitala A. , Gallino S. , Villa L., Lagouvardos K. and Drago. A. 2010: Weather-routing in long-distance Mediterranean routes. *Theoretical and Applied Climatology*, DOI 10.1007/s00704-009-0238-2
64. Lagouvardos K., E. Floros and V. Kotroni, 2010: A Grid-enabled Regional-scale Ensemble Forecasting System in the Mediterranean. *J Grid Computing*, 8:181–197.
65. Llasat, M.C., M. Llasat-Botija, M.A. Prat, F. Porcú, C Price, A. Mugnai, K. Lagouvardos, V.Kotroni, D. Katsanos, S. Michaelides, Y. Yair, K. Savvidou, K. Nicolaidis, 2010: High-impact floods and flash floods in Mediterranean countries: the FLASH preliminary database. *Advances in Geosciences*, 23, 47-55.
66. Savvidou K., K. Lagouvardos, S. Michaelides, V. Kotroni, and P. Constantinides, 2010: Verification of the BOLAM weather prediction model over the area of Cyprus, *Advances in Geosciences*, 23, 93–100, 2010.
67. Bartzokas A., J. Azzopardi, L. Bertotti, A. Buzzi, L. Cavaleri, D. Conte, S. Davolio, S. Dietrich, A. Drago, O. Drofa, A. Gkikas, V. Kotroni, K. Lagouvardos, C.J. Lolis, S. Michaelides, M. Miglietta, A. Mugnai, S. Music, K. Nikolaidis, F. Porcù, K. Savvidou, and M.I. Tsirogianni, 2010: The RISKMED project: Philosophy, methods and products. *Natural Hazards and Earth System Sciences*, 10, 1393-1401.
68. Koletsis I., K. Lagouvardos, V. Kotroni and A. Bartzokas, 2010: The interaction of northern wind flow with the complex topography of Crete Island – Part II: Numerical study, *Natural Hazards and Earth System Sciences*, 10, 1115-1127.
69. Kotroni V., E.Floros, K. Lagouvardos, G. Pejjanovic, L. Ilic, and M. Zivkovic, 2010: Multi-model multi-analysis ensemble weather forecasting on the Grid for the South Eastern Mediterranean Region, *Earth Science Informatics*, DOI: 10.1007/s12145-010-0071-2.

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71. Kotroni V., K. Lagouvardos, and A. Retalis, 2011: The heat wave of June 2007 in Athens, Greece - Part 2: Modelling study and sensitivity experiments. *Atmospheric Research*, 100, 1-11.
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73. Mazarakis, N., V. Kotroni, K. Lagouvardos, A.A. Argiriou, and C.J. Anderson, 2011: The sensitivity of warm period precipitation forecasts to various modifications of the Kain – Fritsch Convective Parameterization Scheme. *Natural Hazards and Earth System Science*, 11, 1327-1339.
74. Price C., Yoav Yair, Alberto Mugnai, Kostas Lagouvardos, Maria Carmen Llasat, Silas Michaelides, Stefano Dietrich, Eli Galanti, Luis Garrote, Dimitris Katsanos, Vasso Kotroni, Montserrat Llasat-Botija, Luis Mediero, Efrat Morin, Kleanthis Nicolaides, Ketii Savvidou, Baruch Ziv, 2011: The FLASH Project: Using lightning data to better understand and predict flash floods. *Environmental Science & Policy*, 14, 898-911.
75. Price C., Y. Yair, A. Mugnai, K. Lagouvardos, M. C. Llasat, S. Michaelides, U. Dayan, S. Dietrich, F. Di Paola, 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, and B. Ziv, 2011: Using lightning data to better understand and predict flash floods in the Mediterranean. *Surveys in Geophysics* 32 (6) , pp. 733-751.
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COORDINATION/PARTNERSHIP OF PROJECTS

Title	Duration	Budget (Euros)
COORDINATION OF INTERNATIONAL PROJECTS		
1. « HEAT-ARCHT: National expansion of a health based early warning system for heat waves», Atlantic Council.	2023-2024	80.000
2. «AUGURES2025-Pillar1: Strategic service translating complex planet-level messaging about climate emergency into understanding of impacts amongst stakeholder», European Climate Foundation.	2024-2025	50.000
PARTNER IN INTERNATIONAL PROJECTS		
1. « WERMED- Weatherrouting dans la Méditerranée». Interreg IIIb	2005-2007	350.000
2. «FLASH-Observations, Analysis and Modeling of Lightning Activity in Thunderstorms, for use in Short Term Forecasting of Flash Floods» FP6	2006-2010	464.000
3. «Network for supporting Marine Affairs in the Mediterranean - NETMARIMED». INTERREG-ARCHIMED	2008	45.000
4. «Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes-“IRMA”». INTERREG-GREECE-ITALY	2014-2015	17.000
5. «BalkanMed real time severe weather service (BeRTISS)» Transnational Cooperation Programme Interreg Balkan-Mediterranean 2014-2020	2017-2020	156.645
6. «Validation of NWC SAF Precipitation Products with Rain Gauges», EUMETSAT.	2021-2022	25.197
7. «AUGURES: Strategic service translating complex planet-level messaging about climate emergency into understanding of impacts amongst stakeholder», European Climate Foundation.	2023-2024	50.000
8. «METEO-GNSSP, Greek National Satellite Space Project: Axis 3 Safety and Security Service », ESA.	2024-2026	90.000
COORDINATOR OF NATIONAL PROJECTS		
1. «Thunder and Lightning Observing and forecasting System – TALOS», Funding: GSRT, ARISTEIA II	2014-2015	253.000
2. « Study of the solar energy availability in Greece». Funding: Independent Power Transmission Operator	2011-2016	36.000
3. « Sever weather events in the Ioanian and the Saronic Seas». Funding: OCEAN RIG	2018-2021	39.071
4. « Strengthening of the surface network of	2018-2020	182.536

Meteorological station in Attica and of the related System for Forest Fires Spread Forecasting». Funding: ELPE		
5. « Correlation of food consumption with weather conditions in Greece ». Funding: Unilever	2018-2020	30.380
6. "FILODIMOS-KILKIS: Development of an early warning system for flood forecasting". Funding: PHILODIMOS, Ministry of Interior	2019-2021	121.780
7. "Monitoring system of meteorological and air quality conditions at the Municipality of Kato Nevrokopi". Funding: Municipality of Nevrokopi	2020-2021	72.440
8. "Weather Alerts: Development of systems for monitoring and early warning for severe weather events". Funding: Private Sector.	2021-2026	270.123
9. "CLIMA-GRID21: Provision of a wide range of weather & climate services for the municipality of Rethymno", Funding: Municipality of Rethymno	2021-2026	91.128
10. "Systems for monitoring & early warning at municipal and regional level - REGION ALERT". Funding: NEA ODOS.	2021-2027	52,201
11. "REGION ALERT Penteli: Forecasting and monitoring services of forest fires and weather conditions of the Municipality of Penteli", Funding: Municipality of Penteli	2023-2025	140.000
PARTNER IN NATIONAL PROJECTS		
1. "Innovative research for the development of urban vulnerability index to climate change and creation of a multi-criteria system for assessing the effectiveness of climate change adaptation measures, Adapt2CC", Funding: NSRF, RESEARCH-INNOVATE-CREATE	2020-2022	189.240
2. "AGRO WATER: Integrated precision irrigation and crop protection system under climate change and reduced availability of water resources", Funding: Greek Ministry of Rural Development and Food	2023-2025	35.000
3. "simplified Early Action Plan: Greece Extreme Heat_sEAP", Funding: RedCross	2023-2025	20.000
COORDINATOR OF SPONSORSHIPS		
1. «Extension of the operational network of surface meteorological stations». Funding: STAVROS NIARCHOS FOUNDATION	2007-2008	30000
2. «Extension of the operational network of surface meteorological stations». Funding: OPAP	2008	30000
3. «Support of the operational network of surface meteorological stations». Funding: SNF	2017-2018	30000

4. «RAYCAP @ METEO», Funding: Raycap Industry	2023-2024	9.000
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COORDINATOR OF EXPLOITATION OF R&D RESULTS		
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«Weather forecasting products and services». Funding: Private sector	2002-now	2.750.000
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