

KARAGINNIDIS Athanasios

Personal Information

DATE - PLACE OF BIRTH: 12 August 1974 in Thessaloniki, Greece
PROFESSION: Researcher
PROFESSIONAL ADDRESS: National Observatory of Athens, Institute of
Environmental Research and Sustainable Development
Lofos Koufou, P. Penteli, 15236, Athens, Greece
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Academic Qualifications

2009: Ph. D. thesis in Meteorology, Aristotle University of Thessaloniki, Greece.
2001: Master's degree in Meteorology and Climatology, Aristotle University of Thessaloniki, Greece.
1997: Bachelor's degree in Physics, Aristotle University of Thessaloniki, Greece.

Scholarships

1998: Greek State Scholarships' Foundation (IKY) for excellent performance in the first year of post-graduate program "Meteorology-Climatology".

Professional Experience

- ❑ 2015 – today: Researcher and Weather Forecaster - National Observatory of Athens, Greece.
- ❑ 2022: Researcher - EUMETSAT / NWC SAF / AEMET / National Observatory of Athens, Greece.
- ❑ 2016: Researcher - EUMETSAT / NWC SAF / Météo-France, Toulouse, France.
- ❑ 2011 – 2015: Researcher - Aristotle University of Thessaloniki and University of Patras, Greece.
- ❑ 2007 – 2016: Under Contract Professor in secondary and tertiary education, Greece.
- ❑ 2007: Weather Forecaster - Greek Organization for Agricultural Insurances Hail Suppression Program, Thessaloniki, Greece.
- ❑ 2003 – 2004: Weather Forecaster - Hellenic National Meteorological Service, Athens, Greece.

Areas of expertise

- Satellite Meteorology. Electrical Phenomena in the atmosphere. Climate Change impacts. Severe weather phenomena. Wildfires and Meteorology.
- Satellite meteorology and remote sensing applications development and supervision. Weather forecasting. Meteorological stations supervision.

Other Activities

- **Reviewer (International Journals)**

- Advances in Geosciences
- Atmospheric Research
- Climate
- EGUsphere
- Global Nest
- Environmental Science and Pollution Research
- International Journal of Climatology
- Journal of Climate
- Journal of Hydrology
- Remote Sensing
- Studia Geophysica et Geodaetica

Citation Report (Web of Science, 3/2024)

Web of Science Core Collection metrics

Citation counts are from Web of Science Core Collection.

20	308	10
Publications in Web of Science	Sum of Times Cited	H-Index

Publications in International Journals

1. Expected Changes in Heating and Cooling Degree Days over Greece in the near Future Based on Climate Scenarios Projections (2024) **A. Karagiannidis**, K. Lagouvardos, V. Kotroni, E. Galanaki. *Atmosphere*, 15, 393. <https://doi.org/10.3390/atmos15040393>.
2. Efficiency of the NWC SAF Version 2021 CRRPh Precipitation Product: Comparison against Previous NWC SAF Precipitation Products and the Influence of Topography (2023) **A. Karagiannidis**, J.A. Lahuerta, X. Cablet, L. Lliso, K. Lagouvardos, V. Kotroni and P. Ripodas. *Climate*, 11, 34. <https://www.mdpi.com/2225-1154/11/2/34>.
3. Ianos - A hurricane in the Mediterranean (2022) K. Lagouvardos, **A. Karagiannidis**, S. Dafis T. Kalimeris, and V. Kotroni. *Bulletin of the American Meteorological Society*. 103, E1621–E1636. <https://doi.org/10.1175/BAMS-D-20-0274.1>.
4. Observational Analyses of Dry Intrusions and Increased Ozone Concentrations in the Environment of Wildfires (2022). Chr. G. Georgiev, St. A. Tjemkes, **A. Karagiannidis**, J. Prieto and K. Lagouvardos. *Atmosphere*, 2022, 13, 597. <https://doi.org/10.3390/atmos13040597>.
5. Meteorological Analysis of the 2021 Extreme Wildfires in Greece: Lessons Learned and Implications for Early Warning of the Potential for Pyroconvection (2022). Th.M. Giannaros, G. Papavasileiou, K. Lagouvardos, V. Kotroni, St. Dafis, **A. Karagiannidis** and E. Dragozi. *Atmosphere* 2022, 13, 475. <https://doi.org/10.3390/atmos13030475>.
6. Storm Naming in the Eastern Mediterranean: Procedures, Events Review and Impact on the Citizens Risk Perception and Readiness (2021). V. Kotroni, K. Lagouvardos, A. Bezes, St. Dafis, E. Galanaki, Chr. Giannaros, Th. Giannaros, **A. Karagiannidis**, I.

- Koletsis, Th. Kopania, K. Papagiannaki, G. Papavasileiou, V. Vafeiadis and E. Vougioulas. Atmosphere 2021, 12, 1537. <https://doi.org/10.3390/atmos12111537>.
7. Utilization and uncertainties of satellite precipitation data in flash flood hydrological analysis in ungauged watersheds (2021) M. Sapountzis, A. Kastridis, A.-P. Kazamias, **A. Karagiannidis**, P. Nikopoulos, K. Lagouvardos. A Global NEST Journal, Vol 23, No 3, pp 388-399. <https://doi.org/10.30955/gnj.003905>.
 8. Assessment of the v2016 NWCSAF CRR and CRR-Ph precipitation estimation performance over the Greek area using rain gauge data as ground truth (2021). **A. Karagiannidis**, K. Lagouvardos, K. Kotroni, Th. M. Giannaros. Meteorology and Atmospheric Physics. <https://doi.org/10.1007/s00703-021-00783-4>.
 9. DISARM Early Warning System for Wildfires in the Eastern Mediterranean (2020). V. Kotroni, C. Cartalis, S. Michaelides, J. Stoyanova, F. Tymvios, A. Bezes, Th. Christoudias, S. Dafis, Chr. Giannakopoulos, Th. M. Giannaros, Chr. Georgiev, **A. Karagiannidis**, A. Karali, I. Koletsis, K. Lagouvardos, I. Lemesios, Th. Mavroukou, K. Papagiannaki, A. Polydoros, Y. Proestos (2020). Sustainability, 12(16): 6670. <https://doi.org/10.3390/su12166670>.
 10. Investigating the Role of Extreme Synoptic Patterns and Complex Topography During Two Heavy Rainfall Events in Crete in February 2019 (2020). K. Lagouvardos, S. Dafis, Chr. Giannaros, **A. Karagiannidis**, V. Kotroni. Climate, 8(7): 87. <https://doi.org/10.3390/cli8070087>.
 11. Modeling lightning density using cloud top parameters (2019). **A. Karagiannidis**, K. Lagouvardos, S. Lykoudis, V. Kotroni, Th. Giannaros, H.-D. Betz. Atmospheric Research, 222: 163-171. <https://doi.org/10.1016/j.atmosres.2019.02.013>.
 12. Atmospheric impact of ship traffic in four Adriatic-Ionian port-cities: Comparison and harmonization of different approaches (2017). E. Merico, A. Gambaro, A. Argiriou, A. Alebic-Juretic, E. Barbaro, D. Cesari, L. Chasapidis, S. Dimopoulos, A. Dinoi, A. Donato, C. Giannaros, E. Gregoris, **A. Karagiannidis**, A.G. Konstandopoulos, T. Ivošević, N. Liora, D. Melas, B. Mifka, I. Orlic, A. Poupkou, K. Sarovic, A. Tsakis, R. Giua, T. Pastore, A. Nocioni, D. Contini. Transportation Research Part D: Transport and Environment, 50 : 431-445. <https://doi.org/10.1016/j.trd.2016.11.016>.
 13. Investigation of isolated thunderstorms lightning activity over eastern Mediterranean using METEOSAT rapid scan infrared imagery (2016). **A. Karagiannidis**, K. Lagouvardos, V. Kotroni, N. Mazarakis. International Journal of Remote Sensing. 37(20): 5001-5020. <http://dx.doi.org/10.1080/01431161.2016.1226000>.
 14. The use of lightning data and Meteosat Infrared imagery for the nowcasting of lightning activity (2016). **A. Karagiannidis**, K. Lagouvardos, V. Kotroni. Atmospheric Research, 168: 57-69. <http://dx.doi.org/10.1016/j.atmosres.2015.08.011>.
 15. Impact of Ship Traffic to PM2.5 and Particle Number Concentrations in Three Port-Cities of the Adriatic/Ionian Area (2015). D. Contini, A. Donato, A. Gambaro, A. Argiriou, D. Melas, D. Cesari, A. Poupkou, **A. Karagiannidis**, A. Tsakis, E. Merico, R. Cesari, A. Dinoi. International Journal of Chemical, Nuclear, Materials and Metallurgical Engineering, 9: 4.
 16. The Air Quality of a Mediterranean Urban Environment Area and Its Relation to Major Meteorological Parameters (2014). **A. Karagiannidis**, A. Poupkou, Th. Giannaros, Ch. Giannaros, D. Melas, A. Argiriou. Water, Air and Soil Pollution, 226:2239. <https://doi.org/10.1007/s11270-014-2239-8>.
 17. Modeling and mapping temperature and precipitation climate data in Greece using

- topographical and geographical parameters (2014). H. Feidas, **A. Karagiannidis**, S. Keppas, M. Vaitis, Th. Kontos, P. Zanis, D Melas, E. Anadranistakis. *Theoretical and Applied Climatology*, 118: 133-146. <https://doi.org/10.1007/s00704-013-1052-4>.
18. Analyzing the basic meteorological aspects of a particulate air pollution episode over the industrial area of northwestern Greece during the November 2009 (2013). **A. Karagiannidis**, A. Triantafyllou, T. Karacostas. *Global NEST Journal*, 15(2): 241-253, <https://doi.org/10.30955/gnj.001015>.
19. Climatological aspects of extreme precipitation episodes in Europe, related to mid-latitude cyclonic systems (2012). **A. Karagiannidis**, T. Karacostas, P. Maheras and T. Makrogiannis. *Theoretical and Applied Climatology*, 107, 165-174. <https://doi.org/10.1007/s00704-011-0474-0>.
20. Trends and seasonality of extreme precipitation characteristics related to mid-latitude cyclones in Europe (2009). **A. Karagiannidis**, T. Karacostas, P. Maheras and T. Makrogiannis. *Advances in Geosciences*, 20: 39-43. www.adv-geosci.net/20/39/2009/.
21. Some Statistical Characteristics of Precipitation In Europe (2008). **A. Karagiannidis**, A. Bloutsos, P. Maheras and Ch. Sachsamanoglou. *Theoretical and Applied Climatology*, 91: 193-204. <https://doi.org/10.1007/s00704-007-0303-7>.

Projects – Participation in Preparation and/or Coordination

Title	Duration	Budget (Euros)
INTERNATIONAL PROJECTS		
1. Associated scientist activity “Validation of NWC SAF Precipitation Products with Rain Gauges.” - EUMETSAT/AEMET/NOA.	2021 - 2022	28,232
2. “Drought and fire obServatory and eArly waRning systeM (DISARM)”. Funding: Transnational Cooperation Programme Interreg Balkan-Mediterranean 2014-2020.	2017-2019	1,028,000 (NOA: 355,900)