

KOLETSIS Ioannis

Personal Information

DATE - PLACE OF BIRTH: 2 June 1979 in Athens, Greece
PROFESSION: Scientific Tech – Staff, Research Associate
PROFESSIONAL ADDRESS: National Observatory of Athens, Institute of
Environmental Research and Sustainable Development
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Academic Qualifications

2010: Ph. D. thesis in Meteorology-Climatology and Physics of Atmospheric Environment, University of Ioannina, Greece.
2006: MSc in Meteorology-Climatology and Physics of Atmospheric Environment, University of Ioannina, Greece.
2002: B. Sc in Physics, University of Ioannina, Greece.

Scholarships / Prizes / Awards

Scholarships

2004: Scholarship from the State Scholarships Foundations (I.K.Y.) for excellent performance during the second year of the MSc studies.
2003: Scholarship from the State Scholarships Foundations (I.K.Y.) for excellent performance during the first year of the MSc studies.
1999: Scholarship from the State Scholarships Foundations (I.K.Y.) for great performance during the first year of the B. Sc studies.

Prizes

2009: Med-Storms prize for the best poster presentation of young researchers at the 11th Plinius Conference on Mediterranean Storms, Barcelona.
2008: Prize for the best oral presentation of young researchers at the 9th Hellenic (International) Conference on Meteorology, Climatology and Atmospheric Sciences, Thessaloniki.

Awards

2021: Gold award at the Education Leaders Awards 2021 as coordinator and scientific editing of a series of educational programs (2 structured programs, 4 videos, 2 digital programs) in the framework of the collaboration of Stavros Niarchos Foundation Cultural Center with the National Observatory of Athens/meteo.gr.
2022: Green Awards 2022: "Environmental Education Program" Award for the program "Peri Anemon & Ydaton".

Professional Experience

- 2023 – today: Scientific Technical Staff – Environmentalist of Institute for Environmental Research and Sustainable Development, National Observatory of Athens.
- 2006 – 2023: external scientific partner as associate researcher in funded projects, forecaster for the weather website www.meteo.gr, technical staff at NOAAN meteorological stations, IERSD/National Observatory of Athens, Greece.
- 2020 – today: scientific editing and presentation (webinar) of teachers' digital educational program "Recycling in Class", Stavros Niarchos Foundation Cultural Center in collaboration with the National Observatory of Athens/meteo.gr.
- 2020 – today: scientific editing and presentation (webinars) of digital educational programs "Climate change..." and "Sustainable planet", Stavros Niarchos Foundation Cultural Center in collaboration with the National Observatory of Athens/meteo.gr.
- 2019 – 2021: external scientific partner as associate researcher in funded project, Department of Agricultural Meteorology, Agricultural University of Athens, Greece.
- 2019 – today: coordinator and teacher of educational program "Sustainable planet", Stavros Niarchos Foundation Cultural Center in collaboration with the National Observatory of Athens/meteo.gr.
- 2018 – today: coordinator and teacher of educational program "Climate change...", Stavros Niarchos Foundation Cultural Center in collaboration with the National Observatory of Athens/meteo.gr.
- 2018 – today: scientific editing and coordinator of interactive meteorological exhibition "Weather's Secrets", TITAN Group in collaboration with the National Observatory of Athens/meteo.gr.
- 2016 – today: coordinator and teacher of educational program "Peri Anemon & Ydaton", National Observatory of Athens/meteo.gr.
- 2013: external scientific partner as associate researcher in funded project, Institute of Oceanography, Hellenic Centre for Marine Research, Greece.
- 2010 – 2011: weather observer, Hellenic Air Force, Hellenic National Meteorological Service.
- 2004 – 2006: physicist in school of secondary educational grade.

Areas of expertise

Dynamic meteorology, numerical weather prediction, weather monitoring, climatology, weather and climate services development, weather forecast, educational programs of Meteorology and Sustainability.

Scientific coordinator of educational programs of Meteorology and Sustainability.

Weather forecaster at meteo.gr.

Other Activities

• Reviewer (International Journals)

Advances in Science and Research

Atmospheric Research

International Society of Offshore and Polar Engineers

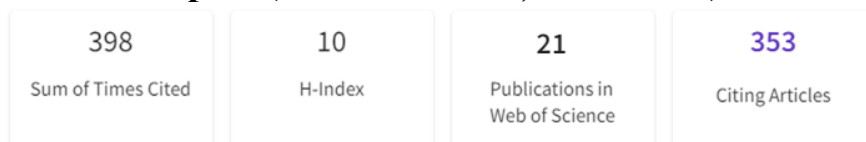
Sustainable Cities and Society

Euro-Mediterranean Journal for Environmental Integration

- **Examples of leadership in industrial innovation or design.**

- Member of the scientific team and coordinator of educational meteorology programs of National Observatory of Athens/meteo.gr. These programs were created to popularize the science of meteorology to students and adults and to raise public awareness of climate change. To this end, NOA/ meteo.gr has designed and created a series of educational programs for students of secondary and primary schools, interactive meteorological exhibitions and presentations to adults. Over the course of eight years (2016-2024), it is estimated that a total of over 50,000 pupils and adults have benefited through the educational activities of NOA/ meteo.gr.
- Member of the concept and development of the today's largest network of automated surface meteorological stations (**NOAAN**). The network started in 2005 and comprises >560 stations (April 2024). A large number of data has been distributed responding to the needs of the scientific community and of the private sector.
- Gold award at the Education Leaders Awards 2021. The educational team of meteo.gr "Peri Anemon & Ydaton" has designed a series of programs (2 structured educational programs, 4 educational videos, 2 digital programs) for Stavros Niarchos Foundation Cultural Center (SNFCC) in order to raise the awareness of students on the issues of climate change, environmental sustainability, and sustainable living. The SNFCC was awarded at the Education Leaders Awards 2021, with the gold award in the category "Cultivation of Environmental Awareness" for the sustainability school programs that offers (<https://www.educationleadersawards.gr/>).
- Green Awards 2022: "Environmental Education Program" Award for the program "Peri Anemon & Ydaton".

Citation Report (Web of Science, 10/04/2024)



Publications in International Journals

1. Kassomenos P., **I. Koletsis**, 2005. Seasonal variations of the temperature inversions over Athens Greece. *International Journal of Climatology*. 25, 1651-1663.
2. **I. Koletsis**, K. Lagouvardos, V. Kotroni, A. Bartzokas, 2009. Numerical study of a downslope windstorm in Northwestern Greece. *Atmospheric Research*. 94, 178-193.
3. **I. Koletsis**, K. Lagouvardos, V. Kotroni, A. Bartzokas, 2009. The interaction of northern wind flow with the complex topography of Crete Island – Part 1: Observational study. *Nat. Hazards Earth Syst. Sci.* 9, 1845-1855.
4. **I. Koletsis**, K. Lagouvardos, V. Kotroni, A. Bartzokas, 2010. The interaction of northern wind flow with the complex topography of Crete Island – Part 2: Numerical study. *Nat. Hazards Earth Syst. Sci.* 10, 1115-1127.

5. Kassomenos P. A., A. K. Paschalidou, S. Lykoudis, **I. Koletsis**, 2014. Temperature inversions characteristics in relation to synoptic circulation above Athens, Greece. *Environ Monit Assess*, 186(6), 3495-502.
6. **I. Koletsis**, V. Kotroni, K. Lagouvardos, 2014. A model-based study of the wind regime over Corinthian Gulf in Greece. *Nat. Hazards Earth Syst. Sci.*, 14, 459–472.
7. **I. Koletsis**, V. Kotroni, K. Lagouvardos, T. Soukissian, 2016. Assessment of offshore wind speed and power potential over the Mediterranean and the Black Seas under future climate changes. *Renewable and Sustainable Energy Reviews*, 60, 234-245.
8. **I. Koletsis**, T. M. Giannaros, K. Lagouvardos, V. Kotroni, 2016. Observational and numerical study of the Vardaris wind regime in northern Greece. *Atmospheric Research*, 171, 107-120.
9. K. Lagouvardos, V. Kotroni, A. Bezes, **I. Koletsis**, T. Kopania, S. Lykoudis, K. Papagiannaki, S. Vougioukas, 2017. The automatic weather stations NOANN network of the National Observatory of Athens: operation and database. *Geoscience Data Journal*, 0, 1-13.
10. K. Pantavou, **I. Koletsis**, S. Lykoudis, E. Melas, M. Nikolopoulou, I. X. Tsiros, 2020. Native influences on the construction of thermal sensation scales. *International Journal of Biometeorology*, 64, 1497-1508, <https://doi.org/10.1007/s00484-020-01927-8>.
11. K. Pantavou, **I. Koletsis**, S. Lykoudis, Em. Melas, M. Nikolopoulou, I. X. Tsiros, 2020. Data on verbal expressions for thermal sensation and comfort in the Greek language. *Data in Brief*, 31, 105807, DIB-D-20-00410R1.
12. K. Makri, Galanaki E., **Koletsis I.**, Kotroni V. & Lagouvardos K., 2020. Assessment of Informal Learning Program on Weather Phenomena: Its Perception and Necessity in Greece. *International Journal of Educational Research Review*, 5 (3), 315-334.
13. V. Kotroni; Cartalis, C.; Michaelides, S.; Stoyanova, J.; Tymvios, F.; Bezes, A.; Christoudias, T.; Dafis, S.; Giannakopoulos, C.; Giannaros, T.M.; Georgiev, C.; Karagiannidis, A.; Karali, A.; **Koletsis, I.**; Lagouvardos, K.; Lemesios, I.; Mavrakou, T.; Papagiannaki, K.; Polydoros, A.; Proestos, Y., 2020. DISARM Early Warning System for Wildfires in the Eastern Mediterranean. *Sustainability*, 12, 6670.
14. N. Mamassis, K. Mazi, E. Dimitriou, D. Kalogeras, N. Malamos, S. Lykoudis, A. Koukouvinos, I. Tsirogiannis, I. Papageorgaki, A. Papadopoulos, Y. Panagopoulos, D. Koutsoyiannis, A. Christofides, A. Efstratiadis, G. Vitantzakis, N. Kappos, D. Katsanos, B. Psiloglou, E. Rozos, T. Kopania, **I. Koletsis**, Antonis D. Koussis, 2021: OpenHi.net: A synergistically built, national-scale infrastructure for monitoring the surface waters of Greece, *Water*, 13, 2779, <https://doi.org/10.3390/w13192779>.
15. E. Dragozi, T. M. Giannaros, V. Kotroni, K. Lagouvardos, **I. Koletsis**, 2021: Dead Fuel Moisture Content (DFMC) estimation using MODIS and meteorological data: the case of Greece, *Remote Sens.*, 13, 4224, <https://doi.org/10.3390/rs13214224>.
16. V. Kotroni, K. Lagouvardos, A. Bezes, S. Dafis, E. Galanaki, C. Giannaros, T. M. Giannaros, A. Karagiannidis, **I. Koletsis**, T. Kopania, K. Papagiannaki, G. Papavasileiou, V. Vafeiadis, E. Vougioukas, 2021: Storm naming in the Eastern Mediterranean: procedures, events review and impact on the citizens risk perception and readiness, *Atmosphere*, 12, 1537, <https://doi.org/10.3390/atmos12111537>.
17. A. D. Koussis; Dimitriadis, P.; Lykoudis, S.; Kappos, N.; Katsanos, D.; **Koletsis, I.**; Psiloglou, B.; Rozos, Ev.; Mazi, K., 2022. Discharge determination from surface-velocity observations: an

assessment of maximum entropy-based methods, *Hydrological Sciences Journal*, <https://doi.org/10.1080/02626667.2022.2030059>.

18. A. Tseliou, **I. Koletsis**, K. Pantavou, E. Thoma, S. Lykoudis, I.X. Tsiros, 2022. Evaluating the effects of different mitigation strategies on the warm thermal environment of an urban square in Athens, Greece, *Urban Climate*, 44, 101217, ISSN 2212-0955, <https://doi.org/10.1016/j.uclim.2022.101217>.
19. C. Giannaros, S. Dafis, S. Stefanidis, T. M. Giannaros, **I. Koletsis**, C. Oikonomou, 2022: Hydrometeorological Analysis of a Flash Flood in an Ungauged Watershed under an Operational Forecasting and Monitoring Context, *Meteorological Applications*, <https://doi.org/10.1002/met.2079>.
20. Mazi, K.; Koussis, A.D.; Lykoudis, S.; Psiloglou, B.E.; Vitantzakis, G.; Kappos, N.; Katsanos, D.; Rozos, E.; **Koletsis, I.**; Kopania, T., 2023: Establishing and Operating (Pilot Phase) a Telemetric Streamflow Monitoring Network in Greece, *Hydrology*, 10, 19, <https://doi.org/10.3390/hydrology10010019>.
21. Lagouvardos, K., Papavasileiou, G., Papagiannaki, K., Dafis, S., Galanaki, E., Giannaros, T. M., **Koletsis, I.**, & Kotroni, V., 2023: Regional precipitation index: Method analysis and application over Greece. *Atmospheric Science Letters*, e1184. <https://doi.org/10.1002/asl.1184>

Projects – Participation as Associate Researcher

- “**Continuous and high-resolution thunderstorm monitoring in Europe – Africa and beyond to support water cycle research and hydro-meteorological applications**” (01/09/2006 – 31/01/2007).
- “**WERMED**-Wéatherrouting dans la Méditerranée” (01/02/2007 – 30/06/2007).
- “Weather Risk Reduction in the Central and Eastern Mediterranean-**RISKMED**” (02/07/2007 – 30/06/2008).
- “Observations, Analysis, and Modeling of Lighting Activity in Thunderstorms for use in Short Term Forecasting of Flash Floods - **FLASH** ” (01/07/2008 – 31/03/2010, 01/05/2010 – 31/08/2010).
- «**Meteorological Forecast Services**» (01/02/2012 – 31/07/2012).
- «**COCONET**-Towards Coast to Coast NETworks of marine protected areas, coupled with sea-based wind energy potential» (01/01/2013 – 31/12/2013).
- «**Meteorological Forecast Services**» (01/06/2013 – 31/12/2013).
- «**THESPIA-KRIPIS (ΘΕΣΠΙΑ-ΚΡΗΠΙΣ)**» (12/02/2014 – 31/07/2015).
- «**Meteorological Forecast Services** » (01/10/2015- 31/01/2018).
- «**Educational Program “Peri Anemon & Ydaton” (Περί Ανέμων και Υδάτων)**» (01/04/2017 – 10/06/2017, 01/10/2017 – 31/12/2017).
- «**Meteorological Forecast Services**» (01/10/2017- 01/02/2018).

- «**THESPIA2 – KRIPIS (ΘΕΣΠΙΑ 2)**» (01/02/2018 – 31/07/2019).
- «**HYDRO-NET: Hydro-Telemetric Networks of Surface Waters: Gauging instruments, smart technologies, installation and operation**» (01/11/2018 – 31/10/2019).
- «**Urban Biometeorology and Planning (UBiPlan)**, Hellenic Foundation for Research & Innovation (01/03/2019 – 15/03/2021).
- «**Meteorological Forecast Services**» (02/08/2019 – 31/03/2020).
- «**CLIMPACT**» (01/04/2020 – 15/06/2022).
- «**Assessment of Earthquake, Fire & Flood Risks in the Region of Attica**» (26/05/2022 – 10/08/2022).
- «**EXCLIMATE-GR**» (01/06/2022 – 30/11/2022).
- «**TRiPGiFT**» (01/12/2022 – 31/01/2023, 19/01/2024 – 29/02/2024).
- «**Meteorological Forecast Services**» (01/02/2023 – 31/03/2023).
- «**PLEIONE**» (01/04/2023 – 17/07/2023).
- «**BIOCLIMATE-GR**» (17/10/2023 – 31/12/2023).