PERSONAL INFORMATION

Name	**ANASTASIOS PAPADOPOULOS**
Position	Research Director – Dynamic Meteorology and Atmospheric Physics with focus on numerical weather prediction
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Education

- BSc in Physics, School of Physics, Faculty of Sciences, Aristotle University of Thessaloniki (1985-1990)
- MSc in Environmental Physics and Meteorology, Department of Physics, School of Science, National and Kapodistrian University of Athens (1990-1993)
- PhD in Atmospheric Physics and Dynamic Meteorology, Department of Physics, School of Science, National and Kapodistrian University of Athens (1996-2001)

Research Interests

Regional and mesoscale modelling, operational meteorology and hydrometeorology, marine meteorology, water and energy cycle, data assimilation techniques, water resources monitoring and assessment, soil erosion and mechanisms of production, transport and deposition of dust substance

Research projects (2018-2021)

- National Project funded by the Ministry of Education, Title: Open ElioT - Open Internet of Things infrastructure for online environmental services. 2018 – 2020, https://www.openeliot.com/en/ - **Role**: Participant
- National Project funded by the Ministry of Environment, Title: Monitoring of the water ecological quality status in the surface water bodies of Greece. Water Framework Directive implementation (2000/60/EC). 2017 – 2023. http://wfd.hcmr.gr/ - **Role**: Participant
- National Project funded by the Ministry of Environment, Title: HIMIOFoTS - Hellenic Integrated Marine and Inland Water Observing, Forecasting and Offshore Technology System. 2017 – 2021. http://www.himiofots.gr/ - **Role**: Participant
- National Project funded by the University of Ioannina, Title: Fire weather forecasting services. 2019 – 2020, http://ialarms.physics.uoi.gr/ - **Role**: Coordinator

Indicative publications in International, peer-reviewed journals until Dec-2021:

1. Varlas, G., P. Katsafados, **A. Papadopoulos**, and G. Korres, 2018: "Implementation of a two-way coupled atmosphere-ocean wave modeling system for assessing air-sea interaction over the Mediterranean Sea". *Atmospheric Research*, **208**, 201-217, https://doi.org/10.1016/j.atmosres.2017.08.019.
2. Tsarpalis, K., **A. Papadopoulos**, N. Mihalopoulos, C. Spyrou, S. Michaelides, and P. Katsafados, 2018: "The implementation of a mineral dust wet deposition scheme in the GOCART-AFWA module of the WRF model". *Remote Sensing*, **10(10),** 1595, https://doi.org/10.3390/rs10101595.
3. Katsafados, P., G. Varlas, **A. Papadopoulos**, C. Spyrou, and G. Korres, 2018: "Assessing the implicit rain impact on sea state during hurricane Sandy (2012)". *Geophysical Research Letters*, **45**, https://doi.org/10.1029/2018GL078673.
4. Karageorgis, A.P., H. Kontoyiannis, S. Stavrakakis, E. Krasakopoulou, A. Gogou, **A. Papadopoulos**, Th.D. Kanellopoulos, G. Rousakis, E. Malinverno, M.V. Triantaphyllou, and V. Lykousis, 2018: "Particle dynamics and fluxes in canyons and open slopes of the southern Cretan margin (Eastern Mediterranean)". *Progress in Oceanography,* **169**, 33-47, https://doi.org/10.1016/j.pocean.2017.12.009.

5. Varlas, G., M. Anagnostou, C. Spyrou, **A. Papadopoulos**, J. Kalogiros, A. Mentzafou, S. Michaelides, E. Baltas, E. Karymbalis, and P. Katsafados, 2019: "A multi-platform hydrometeorological analysis of the flash flood event of 15 November 2017 in Attica, Greece". *Remote Sensing*, **11(1)**, 45, https://doi.org/10.3390/rs11010045.
6. Varlas, G., **A. Papadopoulos**, and P. Katsafados, 2019: "An analysis of the synoptic and dynamical characteristics of hurricane Sandy (2012)". *Meteorology and Atmospheric Physics*, https://doi.org/10.1007/s00703-017-0577-y.
7. Papaioannou, G., G. Varlas, G., G. Terti, **A. Papadopoulos**, A. Loukas, Y. Panagiotopoulos, and E. Dimitriou, 2019: "Flood Inundation Mapping at Ungauged Basins Using Coupled Hydrometeorological–Hydraulic Modelling: The Catastrophic Case of the 2006 Flash Flood in Volos City, Greece". *Water*, **11(11)**, 2328; https://doi.org/10.3390/w11112328.
8. Varlas, G., V. Vervatis, C. Spyrou, E. Papadopoulou, **A. Papadopoulos**, and P. Katsafados, 2020: "Investigating the impact of atmosphere-wave-ocean interactions on a Mediterranean tropical-like cyclone". *Ocean Modelling*, **153**, 101675, https://doi.org/10.1016/j.ocemod.2020.101675.
9. Spyrou, C. G. Varlas, A. Pappa, A. Mentzafou, P. Katsafados, **A. Papadopoulos**, M.N. Anagnostou, and J. Kalogiros, 2020: "Implementation of a nowcasting hydrometeorological system for studying flash flood events: The case of Mandra, Greece". *Remote Sensing*, **12(17)**, 2784, https://doi.org/10.3390/rs12172784.
10. Tsarpalis, K., P. Katsafados, **A. Papadopoulos**, and N. Mihalopoulos, 2020: "Assessing desert dust indirect effects on cloud microphysics through a cloud nucleation scheme: A case study over the western Mediterranean". *Remote Sensing*, **12(21)**, 3473, https://doi.org/10.3390/rs12213473.
11. Varlas, G., E. Marinou, A. Gialitaki, N. Siomos, K. Tsarpalis, N. Kalivitis, S. Solomos, A. Tsekeri, C. Spyrou, M. Tsichla, A. Kampouri, V. Vervatis, E. Giannakaki, V. Amiridis, N. Mihalopoulos, **A. Papadopoulos**, and P. Katsafados, 2021: "Assessing sea-state effects on sea-salt aerosol modeling in the lower atmosphere using lidar and in-situ measurements". *Remote Sensing*, **13**, 614, https://doi.org/10.3390/rs13040614.
12. Papaioannou, G., G. Varlas, **A. Papadopoulos**, A. Loukas, P. Katsafados, and E. Dimitriou, 2021: "Investigating sea-state effects on flood hydrograph and flood inundation forecasting: The case of the Mandra flash flood (2017), Greece". *Hydrological Processes*, **35**, e14151, https://doi.org/10.1002/hyp.14151.
13. Stefanidis, K., G. Varlas, A. Vourka**, A. Papadopoulos**, and E. Dimitriou, 2021: "Delineating the relative contribution of climate related variables to chlorophyll-a and phytoplankton biomass in lakes using the ERA5-Land climate reanalysis data". *Water Research*, **196**, 117053, https://doi.org/10.1016/j.watres.2021.117053.
14. Varlas, G., **A. Papadopoulos**, G. Papaioannou, and E. Dimitriou, 2021: "Evaluating the Forecast Skill of a Hydrometeorological Modelling System in Greece". *Atmosphere*, **12**, 902, https://doi.org/10.3390/atmos12070902.
15. Panagopoulos, Y., **A. Papadopoulos**, G. Poulis, E. Nikiforakis, and E. Dimitriou, 2021: "Assessment of an Ultrasonic Water Stage Monitoring Sensor Operating in an Urban Stream. *Sensors*, **21**, 4689, https://doi.org/10.3390/s21144689.

Scientific publications (until Feb 2022):

76 publications in peer-reviewed journals, Citations: 3363, h index: 29 (source: Google Scholar)

- https://scholar.google.gr/citations?user=rEhILqwAAAAJ&hl=en
- https://www.scopus.com/authid/detail.uri?authorId=7101944752

Editor

- Guest Editor of the Special Issue of Atmosphere "Advances in Mesoscale Numerical Weather Prediction and its Applications"
- Guest Editor of the Special Issue of Atmosphere "Advances in Mesoscale Numerical Weather Prediction and its Applications (2nd Volume)"

Educational activities

- Member of the advisor committees of 8 PhD (2 completed and 2 started within the evaluation period) and 6 MSc.