

**Curriculum Vitae
Scientific Activities**

Aristeidis K. Georgoulas

Physicist, MSc, PhD

December 2023

CURRICULUM VITAE

Personal Information:

Name: Aristeidis K. Georgoulas

Date/Place of Birth: 11-10-1980, Komotini, Greece

Nationality: Greek

Marital Status: Married, two children

Military Obligations: Fulfilled

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Academic Information:

I studied Physics at the Aristotle University of Thessaloniki (AUTH) and I received my Master's degree in Environmental Physics from the Laboratory of Atmospheric Physics (LAP) of AUTH and my PhD degree from the Laboratory of Atmospheric Pollution and Pollution Control Engineering of Atmospheric Pollutants which is part of the Department of Environmental Engineering of the Democritus University of Thrace (DUTH). During my doctoral studies I worked on the spatiotemporal analysis of atmospheric satellite data from various sensors under the supervision of Prof. Konstantinos Kourtidis. Emphasis was given on the detection of large scale weekly variabilities of aerosols and cloud cover. After my PhD and during my mandatory military service in the Hellenic Armed Forces I served as a research fellow at the Laboratory of Atmospheric Pollution and Pollution Control Engineering of Atmospheric Pollutants in DUTH specializing in the analysis of large satellite and ground-based datasets.

Then, I received a two-years postdoctoral fellowship in order to lead my own scientific project (QUADIEEMS) at the Department of Meteorology and Climatology which is part of the School of Geology of AUTH and the Multiphase Chemistry Department of the Max Planck Institute for Chemistry (MPIC) in Mainz, Germany working with Prof. Prodromos Zanis (AUTH) and Prof. Dr. Ulrich Pöschl (MPIC). After QUADIEEMS, I worked as a postdoctoral fellow for the Energy, Environment and Water Research Center (EEWRC) of the Cyprus Institute (Cyl) in Nicosia, Cyprus in close collaboration with Prof. Jos Lelieveld, as a postdoctoral researcher at the Laboratory of Atmospheric Pollution and Pollution Control Engineering of the Department of Environmental Engineering of DUTH in close collaboration with Prof. Konstantinos Kourtidis, served as a tutor-counselor at the School of Science and Technology of the Hellenic Open University (HOU) (postgraduate study program "Environmental Design of Infrastructure Works") and as a scientific collaborator of DRAXIS Environmental Technologies company.

Afterwards, I joined the Royal Netherlands Meteorological Institute (KNMI) in de Bilt, the Netherlands where I worked as a postdoctoral researcher for a few months in close collaboration with Dr. Ronald van der A and Dr. Piet Stammes, still being member of the Laboratory of Atmospheric Pollution and Pollution Control Engineering of Atmospheric Pollutants of the Department of

Environmental Engineering of DUTH where I served as an adjunct lecturer (I taught "Chemical Processes in the Atmosphere") and an affiliated researcher at the Cyl. Then, I started working as a postdoctoral researcher for the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS) of the National Observatory of Athens (NOA) in close collaboration with Dr. Vassilis Amiridis and finally for the Department of Meteorology and Climatology of the School of Geology of AUTH in close collaboration with Prof. Prodromos Zanis which is my current position. In parallel with my research activities at AUTH, in 2019, I re-joined KNMI where I worked as a postdoctoral researcher for a few months in close collaboration with Dr. Jos de Laat, Dr. Folkert Boersma and Dr. Ronald van der A.

My current research focuses on the investigation of aerosols, clouds, trace gases, radiation and their interrelations, atmospheric pollution, its trends and its effect on human health as seen from satellites as well as on the analysis and interpretation of regional and global climate simulations. I am also interested in emission estimates of atmospheric pollutants from satellite observations.

I specialize in atmospheric physics and satellite remote sensing, working on the analysis of satellite, ground-based and climate model data. I am main author (15 papers) or co-author (28 papers) in 43 scientific articles in peer reviewed scientific journals, in 2 book chapters, and in 106 papers/abstracts presented at national and international conferences, and I served as a contributing author of the IPCC Working Group I (WGI) Sixth Assessment Report (Chapter 6). My main scientific interests are summarized below:

- 1) Monitoring of aerosols, clouds, trace gases, radiation, their trends and interrelations from satellites.
- 2) Estimates of the effect of aerosols, clouds and trace gases on the surface solar radiation levels, using satellite, ground-based and climate model data, and radiative transfer simulations.
- 3) Analysis and interpretation of regional and global climate model simulations.
- 4) Monitoring of atmospheric pollutants and the effect they exert on human health from satellites.
- 5) Emission estimates of atmospheric pollutants from satellite observations.

I have also been involved in studies focusing on various environmental issues such as the investigation of the:

- atmospheric electric field (or Potential Gradient - PG) (ground measurements).
- Urban Heat Island (UHI) effect in Athens, Greece (ground and satellite-based observations and model simulations).
- Atmospheric Boundary Layer (ABL) in Thessaloniki, Greece (radiosonde measurements).
- Radon and radioactivity in the city of Xanthi, Greece (ground measurements).

Education and Research Activities:

- **October 2018 - today:**

Postdoctoral researcher at the Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece and the Royal Netherlands Meteorological Institute (KNMI), de Bilt, the Netherlands (from October 2019 to December 2019).

- **February 2018 - October 2018:**

Postdoctoral researcher at the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS) of the National Observatory of Athens (NOA) (still serving as a scientific collaborator) and the Department of Meteorology and Climatology, School of Geology, AUTH.

- **October 2017 - January 2018:**

Postdoctoral researcher at the KNMI, member of the Laboratory of Atmospheric Pollution and Pollution Control Engineering, Department of Environmental Engineering, DUTH where I also served as a tutor (I taught Chemical Processes in the Atmosphere) and Affiliate Research Staff of the Cyprus Institute (Cyl) in Nicosia, Cyprus (until 31 July 2018).

- **April 2015 - September 2017:**

Postdoctoral researcher at the Laboratory of Atmospheric Pollution and Pollution Control Engineering, Department of Environmental Engineering, DUTH, Affiliate Research Staff of the Cyl and scientific collaborator of the DRAXIS Environmental Technologies company.

- **September 2014 - March 2015:**

Postdoctoral fellow at the Energy, Environment and Water Research Center (EEWRC) of the Cyl.

- **October 2014 - July 2015:**

Tutor-counselor at the School of Science and Technology of the Hellenic Open University (HOU) (postgraduate study program "Environmental Design of Infrastructure Works").

- **September 2012 - September 2014:**

Postdoctoral researcher at the Department of Meteorology and Climatology, School of Geology, AUTH and the Multiphase Chemistry Department of the Max Planck Institute for Chemistry (MPIC) in Mainz, Germany.

- **June 2011 - August 2012:**

Research fellow at the Laboratory of Atmospheric Pollution and Pollution Control Engineering, Department of Environmental Engineering, DUTH.

- **September 2007 - May 2011:**

PhD candidate at the Laboratory of Atmospheric Pollution and Pollution Control Engineering, Department of Environmental Engineering, DUTH.

PhD Thesis:

Spatiotemporal analysis of methane, aerosol and cloud satellite data with emphasis on Day of Week - DoW variability.

Grade: Excellent

- **October 2004 - October 2006:**

Postgraduate studies at the Laboratory of Atmospheric Physics (LAP) of AUTH. The two-year Master's degree included studies on atmospheric and environmental physics, atmospheric optics, meteorology, fluid dynamics, field measurements, informatics, statistics /data analysis, remote sensing, etc.

Master's Thesis:

Study of the SO₂ total load in the atmosphere using satellite and ground-based observations.

Grade: 8.50/10 (Excellent)

- **September 1999 - September 2004:**

Undergraduate studies in Physics at AUTH with a graduate grade of 6.57/10 (Very Good). The last year of my studies I selected environmental physics as a specialization which included 7 lessons and a Thesis.

Undergraduate Thesis:

Study of the epochal variation of the mixing height above the city of Thessaloniki with radiosounding data from Macedonia Airport.

• September 1995 - September 1998:

1st Lyceum of Komotini. Graduation Grade: 18.5 /20.

Articles in Peer Reviewed Scientific Journals:

1. **Georgoulas A.K.**, Kioutsioukis I, Symeonidis P., Kourtidis K., AMFIC Web Data Base - A satellite system for the monitoring and forecasting of atmospheric pollution, *Journal of Engineering Science and Technology Review*, 1, 58-61, 2008.
2. **Georgoulas A.K.**, Balis D., Koukoulis M.E., Meleti C., Bais A., Zerefos C., A study of the total atmospheric sulfur dioxide load using ground-based measurements and the satellite derived Sulfur Dioxide Index. *Atmospheric Environment*, 43(9), 1693-1701, doi:10.1016/j.atmosenv.2008.12.012, 2009.
3. **Georgoulas A.K.**, Papanastasiou D.K., Melas D., Amiridis V., Alexandri G., Statistical analysis of boundary layer heights in a suburban environment, *Meteorology and Atmospheric Physics*, 104, 103-111, doi:10.1007/s00703-009-0021-z, 2009.
4. **Georgoulas A.K.**, Kourtidis K.A., Buchwitz M., Schneising O., Burrows J.P., A case study on the application of SCIAMACHY satellite methane measurements for regional studies: the Greater Area of Eastern Mediterranean, *International Journal of Remote Sensing*, 32(3), 787-813, doi:10.1080/01431161.2010.517791, 2011.
5. **Georgoulas A.K.** and Kourtidis K.A., On the aerosol weekly cycle spatiotemporal variability over Europe, *Atmospheric Chemistry and Physics*, 11, 4611-4632, doi:10.5194/acp-11-4611-2011, 2011.
6. **Georgoulas A.K.** and Kourtidis K.A., A high resolution satellite view of the aerosol weekly cycle variability over Central Europe, *Atmospheric Research*, 107, 145-160, doi:10.1016/j.atmosres.2012.01.003, 2012.
7. Sanchez-Lorenzo A., Laux P., Hendricks Franssen H.-J., Calbó J., Vogl S., **Georgoulas A.K.**, Quaas J., Assessing large-scale weekly cycles in meteorological variables: a review, *Atmospheric Chemistry and Physics*, 12, 5755-5771, doi:10.5194/acp-12-5755-2012, 2012.
8. **Georgoulas A.K.**, Kourtidis K.A., Kosmidis E., Despotakis T., Symeonidis P., AMFIC-WSDB: a web data base for hosting and easy retrieval of atmospheric data from satellites, *Computers and Geosciences*, 48, 57-66, doi:10.1016/j.cageo.2012.05.001, 2012.
9. Kourtidis K., Rapsomanikis S., Zerefos C., **Georgoulas A.K.**, Pavlidou E., Severe particulate pollution from deposition practices of primary materials of cement plants, *Environmental Science and Pollution Research*, 21, 9796-9808 doi:10.1007/s11356-014-2969-6, 2014.
10. **Georgoulas A.K.**, Kourtidis K.A., Alexandri G., Rapsomanikis S., Sanchez-Lorenzo A., Common summertime total cloud cover and aerosol optical depth weekly variabilities over Europe: sign of the aerosol indirect effects?, *Atmospheric Research*, 153, 59-73, doi:10.1016/j.atmosres.2014.07.031, 2015.
11. Pozzer A., de Meij A., Yoon J., Tost H., **Georgoulas A.K.**, Astitha M., AOD trends during 2001-2010 from observations and model simulations, *Atmospheric Chemistry and Physics*, 15, 5521-5535, doi:10.5194/acp-15-5521-2015.

12. Kourtidis K., **Georgoulas A.K.**, Rapsomanikis S., Amiridis V., Keramitsoglou I., Hooyberghs H., Maiheu B., Melas D., A study of the hourly variability of the urban heat island effect in the Greater Athens Area during summer, *Science of the Total Environment*, 517, 162-177, doi:10.1016/j.scitotenv.2015.02.062, 2015.
13. Kourtidis K., Stathopoulos S., **Georgoulas A.K.**, Alexandri, G., Rapsomanikis, S., A study of the impact of synoptic weather conditions and water vapor on aerosol-cloud relationships over major urban clusters of China, *Atmospheric Chemistry and Physics*, 15, 10955-10964, doi:10.5194/acp-15-10955-2015, 2015.
14. Alexandri G., **Georgoulas A.K.**, Zanis P., Katragkou E., Tsikerdekis A., Kourtidis K., Meleti C., On the ability of RegCM4 regional climate model to simulate surface solar radiation patterns over Europe: an assessment using satellite-based observations, *Atmospheric Chemistry and Physics*, 15, 13195-13216, doi:10.5194/acp-15-13195-2015, 2015.
15. Kourtidis K., **Georgoulas A.K.**, Vlahopoulou M., Tsiliganis N., Kastelis N., Ouzounis K., Kazakis N., Radon and radioactivity at a town overlying Uranium ores in Northern Greece, *Journal of Environmental Radioactivity*, 150, 220-227 doi:10.1016/j.jenvrad.2015.08.001, 2015.
16. **Georgoulas A.K.**, Alexandri G., Kourtidis K.A., Lelieveld J., Zanis P., Pöschl U., Levy R., Amiridis V., Marinou E., Tsikerdekis A., Spatiotemporal variability and contribution of different aerosol types to the Aerosol Optical Depth over the Eastern Mediterranean, *Atmospheric Chemistry and Physics*, 16, 13853-13884, doi:10.5194/acp-16-13853-2016, 2016.
17. **Georgoulas, A.K.**, Alexandri, G., Kourtidis, K. A., Lelieveld, J., Zanis, P., Amiridis, V.: Differences between the MODIS Collection 6 and 5.1 aerosol datasets over the greater Mediterranean region, *Atmospheric Environment*, 147, 310-319, doi:10.1016/j.atmosenv.2016.10.014, 2016.
18. Stathopoulos S., **Georgoulas A.K.**, Kourtidis K., Space-borne observations of aerosol - cloud relations for cloud systems of different heights, *Atmospheric Research*, 183, 191-201, doi.org/10.1016/j.atmosres.2016.09.005, 2017.
19. Alexandri G., **Georgoulas A.K.**, Meleti C., Balis D., Kourtidis K.A., Sanchez-Lorenzo, A., Trentmann J., Zanis P., A high resolution satellite view of surface solar radiation over the climatically sensitive region of Eastern Mediterranean, *Atmospheric Research*, 188, 107-121, doi:10.1016/j.atmosres.2016.12.015, 2017.
20. Kourtidis K., **Georgoulas A.K.**, Mijling B., van der A M., Zhang Q., Ding J., A new method for deriving trace gas emission inventories from satellite observations: The case of SO₂ over China, *Science of the Total Environment*, 612, 923-930, doi:10.1016/j.scitotenv.2017.08.313, 2018, 2018.
21. de Leeuw G., Sogacheva L., Rodriguez E., Kourtidis K., **Georgoulas A.K.**, Alexandri G., Amiridis V., Proestakis E., Marinou E., Xue Y., van der A R., Two decades of satellite observations of AOD over mainland China using ATSR-2, AATSR and MODIS/Terra: data set evaluation and large-scale patterns, *Atmospheric Chemistry and Physics*, 18, 1573-1592, doi:10.5194/acp-18-1573-2018, 2018.
22. Proestakis E., Amiridis V., Marinou E., **Georgoulas A.K.**, Solomos S., Kazadzis S., Chimot J., Che H., Alexandri G., Biniotoglou I., Daskalopoulou V., Kourtidis K.A., de Leeuw G., van der A, R.J., Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP, *Atmospheric Chemistry and Physics*, 18, 1337-1362, doi:10.5194/acp-18-1337-2018, 2018.
23. Kosmidis E., Syropoulou P., Tekes S., Schneider P., Spyromitros-Xioufis E., Riga M., Charitidis P., Moumtzidou A., Papadopoulos S., Vrochidis S., Kompatsiaris I., Stavarakas I., Hloupis G., Loukidis A., Kourtidis K., **Georgoulas A.K.**, Alexandri G., hackAIR: Towards Raising Awareness about Air

Quality in Europe by Developing a Collective Online Platform, ISPRS International Journal of Geo-information, 7(5), 187, doi:10.3390/ijgi7050187, 2018.

24. **Georgoulas A.K.**, Tsikerdekis A., Amiridis V., Marinou E., Benedetti A., Zanis P., Alexandri G., Kourtidis K.A., Lelieveld J., A 3-D evaluation of the MACC reanalysis dust product over Europe, Northern Africa and Middle East using CALIOP/CALIPSO dust satellite observations, Atmospheric Chemistry and Physics, 18, 8601-8620, doi:10.5194/acp-18-8601-2018, 2018.
25. Sogacheva L., de Leeuw G., Rodriguez E., Kolmonen P., **Georgoulas A.K.**, Alexandri G., Kourtidis K., Proestakis E., Marinou E., Amiridis V., Xue Y., van der A R.J., Spatial and seasonal variations of aerosols over China from two decades of multi-satellite observations - Part 1: ATSR (1995-2011) and MODIS C6.1 (2000-2017), Atmospheric Chemistry and Physics, 18, 11389-11407, doi:10.5194/acp-18-11389-2018, 2018.
26. Sogacheva L., Rodriguez E., Kolmonen P., Virtanen T.H., Saponaro G., de Leeuw G., **Georgoulas A.K.**, Alexandri G., Kourtidis K., van der A, R.J.: Spatial and seasonal variations of aerosols over China from two decades of multi-satellite observations - Part 2: AOD time series for 1995–2017 combined from ATSR ADV and MODIS C6.1 and AOD tendency estimations, Atmospheric Chemistry and Physics, 18, 16631-16652, doi:10.5194/acp-18-16631-2018, 2018.
27. Nicoll K.A., Harrison R.G., Barta V., Bor J., Brugge R., Chillingarian A., Chum J., **Georgoulas A.K.**, Guha A., Kourtidis K., Kubicki M., Mareev E., Matthews J., Mkrtychyan H., Odzimek A., Raulin J.-P., Robert D., Silva H.G., Tacza J., Yair Y., Yaniv R., A global atmospheric electricity monitoring network for climate and geophysical research, Journal of Atmospheric and Solar-Terrestrial Physics, 184, 18-29, doi:10.1016/j.jastp.2019.01.003, 2019.
28. **Georgoulas A.K.**, van der A R.J., Stammes P., Boersma K.F., Eskes H.J., Trends and trend reversal detection in 2 decades of tropospheric NO₂ satellite observations, Atmospheric Chemistry and Physics, 19, 6269-6294, doi:10.5194/acp-19-6269-2019, 2019.
29. Kourtidis K. and **Georgoulas A.K.**, An alternative approach for deriving emission inventories solely from satellite data: Demonstration for NO₂ over China, Frontiers in Environmental Science, 7:138, doi:10.3389/fenvs.2019.00138, 2019.
30. Tsikerdekis A., Zanis P., **Georgoulas A.K.**, Alexandri G., Katragkou E., Karacostas C., Solmon F., Direct and semi-direct radiative effect of North African dust in present and future regional climate simulations, Climate Dynamics, 53, 4311-4336, doi:10.1007/s00382-019-04788-z, 2019.
31. **Georgoulas A.K.**, Marinou E., Tsekeri A., Proestakis E., Akritidis D., Alexandri G., Zanis P., Balis D., Marenco F., Tesche M., Amiridis V., A first case study of CCN concentrations from spaceborne lidar observations, Remote Sensing, 12(10), 1557, doi:10.3390/rs12101557, 2020.
32. Pavlidis V., Katragkou E., Prein A., **Georgoulas A.K.**, Kartsios S., Zanis P., Karacostas, T., Investigating the sensitivity to resolving aerosol interactions in downscaling regional model experiments with WRFv3.8.1 over Europe, Geoscientific Model Development, 13, 2511–2532, doi:10.5194/gmd-13-2511-2020, 2020.
33. Zanis P., Akritidis D., **Georgoulas A.K.**, Allen R.J., Bauer S.E., Boucher O., Cole J., Johnson B., Deushi M., Michou M., Mulcahy J., Nabat P., Olivie D., Oshima N., Sima A., Schulz M., Takemura T., Tsigaridis K., Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study, Atmospheric Chemistry and Physics, 20, 8381-8404, doi:10.5194/acp-20-8381-2020, 2020.
34. Allen R.J., Turnock S., Nabat P., Neubauer D., Lohmann U., Olivie D., Oshima N., Michou M., Wu T., Zhang J., Takemura T., Schulz M., Tsigaridis K., Bauer S.E., Emmons L., Horowitz L., Naik V., van Noije T., Bergman T., Lamarque J.-F., Zanis P., Tegen I., Westervelt D.M., Le Sager P., Good P., Shim S., O'Connor F., Akritidis D., **Georgoulas A.K.**, Deushi M., Sentman L.T., John J.G., Fujimori S.,

- Collins W.J., Climate and air quality impacts due to mitigation of non-methane near-term climate forcers, *Atmos. Chem. Phys.*, 20, 9641-9663, doi:10.5194/acp-20-9641-2020, 2020.
35. Akritidis D., Katragkou E., **Georgoulas A.K.**, Zanis P., Kartsios S., Flemming J., Inness A., Douros J., Eskes H., A complex aerosol transport event over Europe during the 2017 Storm Ophelia in CAMS forecast systems: analysis and evaluation, *Atmospheric Chemistry and Physics*, 20, 13557–13578, doi:10.5194/acp-20-13557-2020, 2020.
36. **Georgoulas A.K.**, Boersma K.F., van Vliet J., Zhang X., van der A R., Zanis P., de Laat J., Detection of NO₂ pollution plumes from individual ships with the TROPOMI/S5P satellite sensor, *Environmental Research Letters*, 15, 124037, doi:10.1088/1748-9326/abc445, 2020.
37. Kampouri A., Amiridis V., Solomos S., Gialitaki A., Marinou E., Spyrou C., **Georgoulas A.K.**, Akritidis D., Papagiannopoulos N., Mona L., Scollo S., Tsihla, M., Tsikoudi I., Pytharoulis I., Karacostas T., Zanis P., Investigation of Volcanic Emissions in the Mediterranean: "The Etna–Antikythera Connection", *Atmosphere*, 12(1), 40, doi:10.3390/atmos12010040, 2021.
38. Alexandri G., **Georgoulas A.K.**, Balis D., Effect of aerosols, tropospheric NO₂ and clouds on surface solar radiation over the Eastern Mediterranean (Greece), *Remote Sensing*, 13(13), 2587, doi:10.3390/rs13132587, 2021.
39. Akritidis D., Zanis P., **Georgoulas A.K.**, Papakosta E., Tzoumaka P., Kelessis A., Implications of COVID-19 Restriction Measures in Urban Air Quality of Thessaloniki, Greece: A Machine Learning Approach, *Atmosphere*, 12(11), 1500, doi:10.3390/atmos12111500, 2021.
40. Zanis P., Akritidis D., Turnock S., Naik V., Szopa S., **Georgoulas A.K.**, Bauer S.E., Deushi M., Horowitz L.W., Keeble J., Le Sager P., O'Connor F.M., Oshima N., Tsigaridis K., van Noije T., Climate change penalty and benefit on surface ozone: A global perspective based on CMIP6 Earth System Models, *Environmental Research Letters*, 17, 024014, doi:10.1088/1748-9326/ac4a34, 2022.
41. **Georgoulas A.K.**, Akritidis D., Kalisoras A., Kapsomenakis J., Melas D., Zerefos C.S., Zanis P., Climate change projections for Greece in the 21st century from high-resolution EURO-CORDEX RCM simulations, *Atmospheric Research*, 271, 106049, doi:10.1016/j.atmosres.2022.106049, 2022.
42. Mavromatis T., **Georgoulas A.K.**, Akritidis D., Melas D., Zanis P., Spatiotemporal evolution of seasonal crop-specific climatic indices under climate change in Greece based on EURO-CORDEX RCM simulations, *Sustainability*, 14, 17048, doi:10.3390/su142417048, 2022.
43. Tsantalidou A., Arvanitakis G., **Georgoulas A.K.**, Akritidis D., Zanis P., Fornasiero D., Wohlgemuth D., Kontoes C., A Data Driven Approach for Analyzing the Effect of Climate Change on Mosquito Abundance in Europe, *Remote Sensing*, 15, 5649, doi:10.3390/rs15245649, 2023.
44. Kalisoras A., **Georgoulas A.K.**, Akritidis D., Allen R.J., Naik V., Kuo C., Szopa S., Nabat P., Olivié D., van Noije T., Le Sager P., Neubauer D., Oshima N., Mulcahy J., Horowitz L.W., Zanis P., *Decomposing the Effective Radiative Forcing of anthropogenic aerosols based on CMIP6 Earth System Models*, *EGUsphere [preprint]*, doi:10.5194/egusphere-2023-2571, 2023.

Table 1. Analysis of the peer-reviewed publications with regard to the journals' impact factor according to Journal Citation Reports (<https://jcr.clarivate.com>) for 2023.

Journal Title	Impact Factor - IF	Papers
Atmosphere	2.9	2
Atmospheric Chemistry and Physics	6.3	15
Atmospheric Environment	5.0	2
Atmospheric Research	5.5	5
Climate Dynamics	4.6	1
Computers and Geosciences	4.4	1
Environmental Research Letters	6.7	2
Environmental Science and Pollution Research	5.8	1
Frontiers in Environmental Science	4.6	1
Geoscientific Model Development	5.1	1
International Journal of Remote Sensing	3.4	1
ISPRS International Journal of Geo-information	3.4	1
Journal of Atmospheric and Solar-Terrestrial Physics	1.9	1
Journal of Engineering Science and Technology Review	-	1
Journal of Environmental Radioactivity	2.3	1
Meteorology and Atmospheric Physics	2.0	1
Remote Sensing	5.0	3
Science of the Total Environment	9.8	2
Average IF: 5.4		Papers: 43

Figure 1. Analysis of the peer-reviewed publications with regard to the journals' impact factor according to Journal Citation Reports (<https://jcr.clarivate.com>) for 2023.

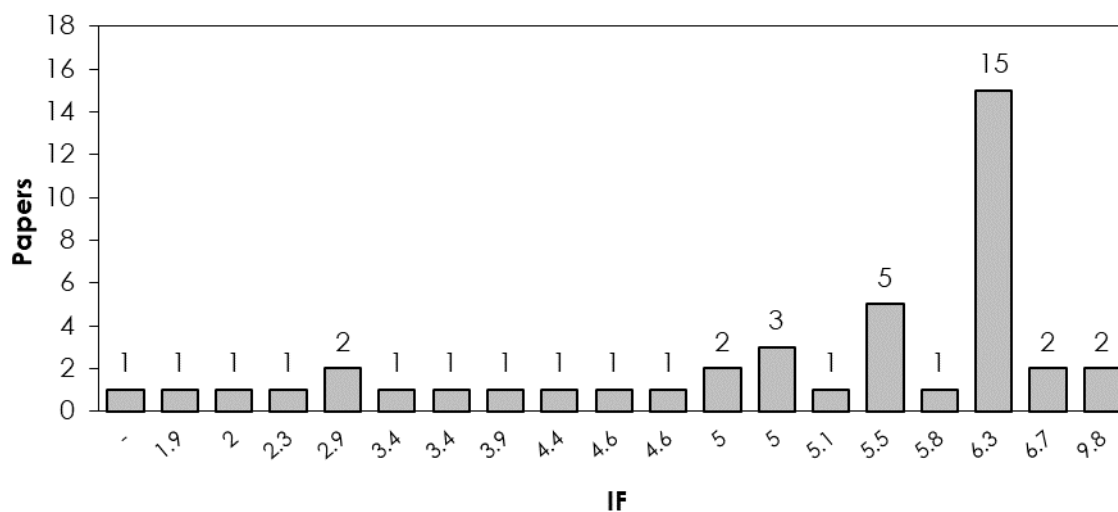


Table 2. Analysis of the peer-reviewed publications with regard to the citations they have received according to Scopus (<https://www.scopus.com>). (*Italics are used for published or accepted papers that do not appear in Scopus yet*)

	Paper	Citations (excl. self citations)	Citations (incl. self citations)
1	Georgoulas et al., 2008, JESTR	1	2
2	Georgoulas et al., 2009, Atmos. Env.	16	17
3	Georgoulas et al., 2009, MAP	20	20
4	Georgoulas et al., 2011, IJRS	7	8
5	Georgoulas and Kourtidis, 2011, ACP	14	19
6	Georgoulas and Kourtidis, 2012, Atmos. Res.	5	10
7	Sanchez-Lorenzo et al., 2012, ACP	31	32
8	Georgoulas et al., 2012, Comp. Geosci.	0	2
9	Kourtidis et al., 2014, ESPR	3	4
10	Georgoulas et al., 2015, Atmos. Res.	15	17
11	Pozzer et al., 2015, ACP	105	111
12	Kourtidis et al., 2015, STOTEN	38	38
13	Kourtidis et al., 2015, ACP	26	35
14	Alexandri et al., 2015, ACP	25	31
15	Kourtidis et al., 2015, J. Environ. Radioactiv.	9	9
16	Georgoulas et al., 2016, ACP	59	66
17	Georgoulas et al., 2016, Atmos. Environ.	38	45
18	Stathopoulos et al., 2017, Atmos. Res.	8	11
19	Alexandri et al., 2017, Atmos. Res.	30	35
20	Kourtidis et al., 2018, STOTEN	6	7
21	de Leeuw et al., 2018, ACP	92	94
22	Proestakis et al., 2018, ACP	94	98
23	Kosmidis et al., 2018, ISPRS Int. Geo-inf.	30	30
24	Georgoulas et al., 2018, ACP	15	18
25	Sogacheva et al., 2018a, ACP	51	53
26	Sogacheva et al., 2018b, ACP	57	60
27	Nicoll et al., 2019, J. Atmos. Sol.-Terr. Phys.	64	64
28	Georgoulas et al., 2019, ACP	112	116
29	Kourtidis and Georgoulas, 2019, Front. Environ. Sci.	0	0
30	Tsikerdekis et al., 2019, Clim. Dyn.	15	16
31	Georgoulas et al., 2020, Remote Sens.	16	18
32	Pavlidis et al., 2020, GMD	9	9
33	Zanis et al., 2020, ACP	14	15

34	Allen et al., 2020, ACP	23	23
35	Akritidis et al., 2020, ACP	16	17
36	Georgoulas et al., 2020, ERL	30	30
37	Kampouri et al., 2021, Atmosphere	9	10
38	Alexandri et al., 2021, Remote Sens.	5	6
39	Akritidis et al., 2021, Atmosphere	14	14
40	Zanis et al., 2022, ERL	22	22
41	Georgoulas et al., 2022, Atmos. Res.	14	15
42	Mavromatis et al., 2022, Sustainability	3	3
43	Tsantalidou et al., 2023, Remote Sensing	0	0
Citations:		1161	1250

Figure 2. Number of citations per year according to Scopus (<https://www.scopus.com>).

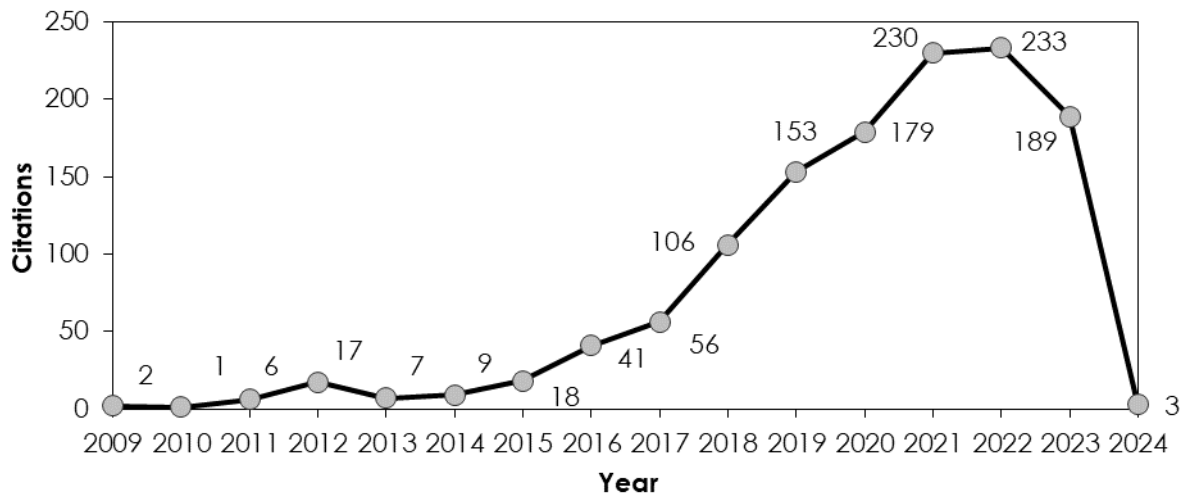
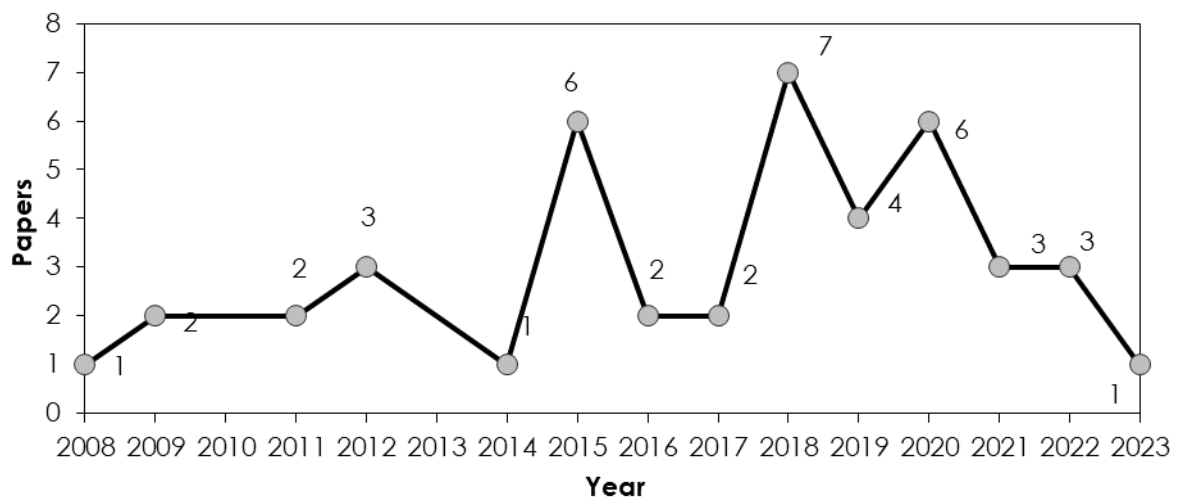


Figure 3. Number of peer-reviewed publications per year according to Scopus (<https://www.scopus.com>).



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77. Tetoni E., Amiridis V., Giannakaki E., Marinou E., Kottas M., Gialitaki A., Proestakis E., Solomos S., **Georgoulas A.K.**, Stachlewska I.S., Baars H., Engelmann R., Hofer J., paper 88, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, 15-17 October, 2018.
78. Tsikerdekis A., Zanis P., **Georgoulas A.K.**, Alexandri G., Katragkou E., Solmon F., abstract 119, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, 15-17 October, 2018.
79. Amiridis V., **Georgoulas A.K.**, Marinou E., Tsekeri A., Proestakis E., Tetoni E., Zanis P., Marenco F., CCN estimates from CALIOP/CALIPSO observations during the EUFAR-ACEMED campaign, Geophysical Research Abstracts, Vol. 21, 14278-2, EGU General Assembly 2019, Vienna, Austria, 7-12 April, 2019.
80. **Georgoulas A.K.**, van der A R.J., Stammes P., Boersma K.F., Eskes H.J., Long-term trends and trend reversal detection in two decades of tropospheric NO₂ satellite observations, Geophysical Research Abstracts, Vol. 21, 15924-1, EGU General Assembly 2019, Vienna, Austria, 7-12 April, 2019.
81. **Georgoulas A.K.**, Marinou E., Tsekeri A., Amiridis V., Proestakis E., Akritidis D., Alexandri G., Zanis P., Marenco F., First CCN estimates from CALIOP/CALIPSO observations: a demonstration during the EUFAR-ACEMED campaign, Book of Abstracts, p. 26, 1st Scientific Conference PANACEA, Heraklion, Greece, 23-24 September, 2019.
82. Zanis P., Akritidis D., **Georgoulas A.K.**, Allen R.J., Bauer S.E., Boucher O., Cole J., Johnson B., Deushi M., Michou M., Mulcahy J., Nabat P., Olivie D., Oshima N., Sima A., Schulz M., Takemura T., A CMIP6 multi-model study of fast responses on pre-industrial climate due to present-day aerosols, EGU2020-4760, EGU General Assembly 2020, online due to the COVID-19 pandemic, 4-8 May, 2020.
83. Akritidis D., Katragkou E., **Georgoulas A.K.**, Zanis P., Kartsios S., Flemming J., Inness A., Eskes, H., Ex-hurricane Ophelia and air quality impacts over Europe in CAMS forecast systems, EGU2020-4061, EGU General Assembly 2020, online due to the COVID-19 pandemic, 4-8 May, 2020.
84. Kampouri A., Amiridis V., Solomos S., Spyrou C., Gialitaki A., Papagiannopoulos N., Mona L., **Georgoulas A.K.**, Akritidis D., Zanis P., Investigation of volcanic emissions in the Mediterranean: "The Etna-Antikythera connection", Book of Abstracts, p. 29, 2nd Scientific Conference PANACEA, web conference, 29 September-1 October, 2020.
85. Zanis P., Akritidis D., **Georgoulas A.K.**, Allen R.J., Bauer S.E., Boucher O., Cole J., Johnson B., Deushi M., Michou M., Mulcahy J., Nabat P., Olivie D., Oshima N., Sima A., Schulz M., Takemura T., Tsigaridis K., Fast climate responses from present-day aerosols in a CMIP6 multi-model study, Book of Abstracts, p. 60, 2nd Scientific Conference PANACEA, web conference, 29 September-1 October, 2020.
86. Alexandri G., **Georgoulas A.K.**, Balis D., The effect of air quality and clouds on surface solar radiation over Greece, Book of Abstracts, p. 11, 2nd Scientific Conference PANACEA, web conference, 29 September-1 October, 2020.
87. **Georgoulas A.K.**, Boersma K.F., van Vliet J., Zhang X., van der A R., Zanis P., de Laat J., Detection of NO₂ plumes from individual ships over the Mediterranean with the TROPOMI/S5P,

- Book of Abstracts, p. 21, 2nd Scientific Conference PANACEA, web conference, 29 September-1 October, 2020.
88. de Laat J., **Georgoulas A.K.**, Boersma K.F., van Vliet J., van der A R., Zanis P., Zhang X., Detection of NO₂ pollution plumes from individual ships with the TROPOMI/S5P satellite sensor, A013-02, AGU Fall Meeting 2020, online due to the COVID-19 pandemic, 1-17 December, 2020.
 89. Kampouri A., Amiridis V., Solomos S., Gialitaki A., Marinou E., Spyrou C., **Georgoulas A.K.**, Akritidis D., Papagiannopoulos N., Mona L., Scollo S., Pytharoulis I., Karacostas T., Zanis P., Investigation of volcanic emissions in Antikythera PANGAEA station using near-real-time alerts, EGU21-13213, EGU General Assembly 2021, online due to the COVID-19 pandemic, 19-30 April, 2021.
 90. Alexandri G., **Georgoulas A.K.**, Balis D., Air quality and cloud effects on surface solar radiation over urban and rural areas in Greece, In: COMECAP-2021 book of contributions, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece and online due to the COVID-19 pandemic, 26-29 September, 330-334, 2021.
 91. Kampouri A., Amiridis V., Solomos S., Gialitaki A., Spyrou C., Marinou E., Papagiannopoulos N., Mona L., **Georgoulas A.K.**, Akritidis D., Pytharoulis I., Karacostas T., Zanis P., Investigation of volcanic emissions at Antikythera PANGAEA station, In: COMECAP-2021 book of contributions, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece and online due to the COVID-19 pandemic, 26-29 September, 71-76, 2021.
 92. Zanis P., Akritidis D., **Georgoulas A.K.**, Kalisoras A., Deushi M., Nabat P., Olivier D., Oshima N., Schulz M., Allen R.J., Fast responses on pre-industrial climate due to present-day aerosols based on three Earth System Models, In: COMECAP-2021 book of contributions, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece and online due to the COVID-19 pandemic, 26-29 September, 625-629, 2021.
 93. **Georgoulas A.K.**, Boersma K.F., van Vliet J., Zhang X., Ronald van der A., Zanis P., de Laat J. Detection of NO₂ plumes from individual ships over the Mediterranean Sea with the TROPOMI/S5P, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece and online due to the COVID-19 pandemic, 26-29 September, 971-975, 2021.
 94. Alexandri G., **Georgoulas A.K.**, Balis D., On the effect of aerosols, tropospheric NO₂ and clouds on surface solar radiation over the Eastern Mediterranean (Greece), Book of Abstracts, p. 71, Virtual workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East (within the framework of the 2nd International Conference on Climate Change in the Eastern Mediterranean & Middle East), 11-12 October, 2021.
 95. **Georgoulas A.K.**, Akritidis D., Kalisoras A., Kapsomenakis J., Melas D., Zerefos C.S., Zanis P., Climate change projections for Greece in the 21st century from a high-resolution EURO-CORDEX ensemble, p. 38, Virtual workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East (within the framework of the 2nd International Conference on Climate Change in the Eastern Mediterranean & Middle East), 11-12 October, 2021.
 96. Akritidis D., **Georgoulas A.K.**, Kalisoras A., Kapsomenakis J., Melas D., Zerefos C.S., Zanis P., Climate change projections for Greece in the 21st century, EGU22-11972, EGU General Assembly 2022, Vienna, Austria and online due to the COVID-19 pandemic, 23-27 May, 2022.
 97. Zanis P., Akritidis D., Turnock S., Naik V., Szopa S., **Georgoulas A.K.**, Bauer S.E., Deushi M., Horowitz L.W., Keeble J., Le Sager P., O'Connor F.M., Oshima N., Tsigaridis K., van Noije T., EGU22-12257, EGU General Assembly 2022, Vienna, Austria and online due to the COVID-19 pandemic, 23-27 May, 2022.

98. Mavromatis T., **Georgoulas A.K.**, Akritidis D., Melas D., Zanis P., Climate change projections of crop-specific temperature- and precipitation-related indices for Greece from EURO-CORDEX simulations in the 21st century, 2nd AGROECOINFO, Volos, Greece, 30 June-1 July, 13-18, 2022.
99. Zanis P., **Georgoulas A.K.**, Akritidis D., Kalisoras A., Melas D., Future climate change projections for Greece based on an ensemble of high-resolution Regional Climate Model simulations, 10th International Symposium on Atmospheric Sciences (ATMOS'22), Istanbul, Turkey and online (hybrid), 18-21 October, 2022.
100. **Georgoulas A.K.**, Kontos S., Boersma K.F., van Vliet J., Ship plume modeling based on CALPUFF and WRF: Towards a first estimate of individual ship NO_x emissions from space, Book of Abstracts, p. 15, 2nd Annual Workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East, online, 1 November, 2022.
101. Akritidis D., Bacer S., Zanis P., **Georgoulas A.K.**, Horowitz L.W., Naik V., O'Connor F.M., Keeble J., Le Sager P., van Noije T., Zhou P., Pozzer A., Future projection of ozone-related mortality under SSP3-7.0 scenario based on CMIP6 simulations, EGU23-5642, EGU General Assembly 2023, Vienna, Austria, 24-28 April, 2023.
102. **Georgoulas A.K.**, Akritidis D., Lorilla R.S., Kontoes C., Ceglar A., Toreti A., Zanis P., Impact of climate change on agro-climatic zones in Europe under different RCPs, EGU23-1235, EGU General Assembly 2023, Vienna, Austria, 24-28 April, 2023.
103. Akritidis D., **Georgoulas A.K.**, Lorilla R.S., Kontoes C., Ceglar A., Toreti A., Kalisoras A., Zanis P., On the Northward Shift of Agro-Climatic Zones in Europe under Different Climate Change Scenarios, Environmental Sciences Proceedings, 26(1):20, doi:10.3390/environsciproc_2023026020, 2023, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 25-29 September, 2023.
104. Kourtidis K., Tzivleris A., Stathopoulos S., Gemitzi A., **Georgoulas A.K.**, On the Methane Emissions of the Greater Thessaloniki Area, Environmental Sciences Proceedings 26(1):39, doi:10.3390/environsciproc2023026039, 2023, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 25-29 September, 2023.
105. Kalisoras A., **Georgoulas A.K.**, Akritidis D., Allen R.J., Naik V., Zanis P., Estimating the Effective Radiative Forcing of Anthropogenic Aerosols with the Use of CMIP6 Earth System Models, Environmental Sciences Proceedings, 26(1):40, doi:10.3390/environsciproc2023026040, 2023, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 25-29 September, 2023.
106. Kalisoras A., **Georgoulas A.K.**, Akritidis D., Allen R.J., Naik V., Zanis P., An estimation of the anthropogenic aerosols effective radiative forcing based on seven CMIP6 earth system models, Book of Abstracts, p. 23-24, 3rd Annual Online Scientific Workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East, online, 7 November, 2023.

Attended Conferences:

1. 6th Environmental Conference of Greek Physicists Union, Thessaloniki, Greece, 9-12 December, 2004.

2. 8th Conference on Meteorology, Climatology and Atmospheric Physics, Athens, 24-26 May, 2006.
3. 11th Pan-Hellenic Conference of the Greek Physicists Union, Larisa, 30 March-2 April 2006.
4. 7th Environmental Conference of Greek Physicists Union, Konitsa, Greece, 24-26 November, 2006.
5. 12th Pan-Hellenic Conference of the Greek Physicists Union, Kavala, Greece, 20-23 March, 2008.
6. 9th Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 28-31 May, 2008.
7. European Geosciences Union (EGU) General Assembly 2009, Vienna, Austria, 19-24 April, 2009.
8. European Geosciences Union (EGU) General Assembly 2010, Vienna, Austria, 2-7 May, 2010.
9. 10th Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May, 2010.
10. European Geosciences Union (EGU) General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
11. 11th Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 29 May-1 June, 2012.
12. European Geosciences Union (EGU) General Assembly 2013, Vienna, Austria, 7-12 April, 2013.
13. European Aerosol Conference (EAC) 2013, Prague, Czech Republic, 1-6 September, 2013.
14. AGU Fall Meeting 2013, San Francisco, US, 9-13 December, 2013.
15. European Geosciences Union (EGU) General Assembly 2014, Vienna, Austria, 27 April-2 May, 2014.
16. 12th Conference on Meteorology, Climatology and Atmospheric Physics, Heraklion, Greece, 28-31 May, 2014.
17. 40th COSPAR Scientific Assembly 2014, Moscow, Russia, 2-10 August, 2014.
18. European Geosciences Union (EGU) General Assembly 2015, Vienna, Austria, 12-17 April, 2015.
19. European Geosciences Union (EGU) General Assembly 2016, Vienna, Austria, 17-22 April, 2016.
20. 13th Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 19-21 September, 2016.
21. European Geosciences Union (EGU) General Assembly 2018, Vienna, Austria, 8-13 April, 2018.
22. European Lidar Conference (ELC) 2018, Thessaloniki, Greece, 3-5 July, 2018.
23. European Geosciences Union (EGU) General Assembly 2019, Vienna, Austria, 7-12 April, 2019.
24. European Geosciences Union (EGU) General Assembly 2020, Vienna, Austria, 4-8 May, 2020 (attended online due to the COVID-19 pandemic).
25. 2nd Scientific Conference PANACEA, web conference, 29 September-1 October, 2020.

26. 15th International Conference on Meteorology, Climatology and Atmospheric Physics, Ioannina, Greece and online due to the COVID-19 pandemic, 26-29 September, 2021.
27. Virtual workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East (within the framework of the 2nd International Conference on Climate Change in the Eastern Mediterranean & Middle East), 11-12 October, 2021.
28. European Geosciences Union (EGU) General Assembly 2022, Vienna, Austria and online due to the COVID-19 pandemic, 23-27 May, 2022 (attended online).
29. 2nd Annual workshop on Climate and Atmosphere Research & Innovation in the Eastern Mediterranean & Middle East, 1 November, 2022 (attended online).
30. European Geosciences Union (EGU) General Assembly 2023, Vienna, Austria, 24-28 April, 2023.

Participation in Research Projects:

1. **Air Quality Monitoring and Forecasting in China**, European Union, DG TREN Aeronautics and Space, Contract No. 030940, 2007-2009. (Researcher)
2. **Thermopolis 2009**, European Space Agency, ESA Contract No. 22693/09/I-EC, 2009-2010. (Researcher)
3. **QUantifying the Aerosol Direct and Indirect Effect over Eastern Mediterranean from Satellites (QUADIEEMS)**, within the framework of the Action "SUPPORTING POSTDOCTORAL RESEARCHERS", co-financed by the European Social Fund (ESF) and national resources under the operational programme Education and Lifelong Learning (EdLL), 2012-2014. (Postdoctoral Researcher - Coordinator)
4. **Consistent Computation of the Chemistry-Cloud Continuum and Climate Change in Cyprus (C8)**, financed by the European Research Council under the European Union's Seventh Framework Programme (FP7/2007-2013)/ERC grant agreement no. 226144, 2014-2015. (Postdoctoral fellow)
5. **Urban clusters impact on regional Air pollution and climate and generic visualisation software for satellite data applications (AEROVIS Sino-Greek project)**, within the framework of the national action "Bilateral, multilateral and regional R&T cooperations" which is co-financed by EPAN II and PEP, 2013-2015. (Postdoctoral Researcher - Collaborator)
6. **Monitoring and Assessment of Regional air quality in China using space Observations, Project Of Long-term sino-european co-Operation (MarcoPolo)**, European Union, FP7 collaborative project, Grant Agreement No. 606953, 2014-2016. (Postdoctoral Researcher)
7. **Collective awareness platform for outdoor air pollution (hackAIR)**, European Union, Horizon 2020, Grant Agreement No. 688363, 2016-2017. (Postdoctoral Researcher)
8. **SCIAvisie**, Netherlands Space Office, Dutch Project, 2017-2018. (Postdoctoral Researcher)
9. **PROTEAS II - Advanced Space Applications in the Exploration of the Universe, Space and Earth**, MIS 5002515, within the framework of the Action "Reinforcement of the Research and Innovation Infrastructure", funded by the Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2018. (Postdoctoral Researcher)
10. **PANhellenic infrastructure for Atmospheric Composition and climate change (PANACEA)**, MIS 5021516, within the framework of the Action "Reinforcement of the Research and Innovation

Infrastructure", funded by the Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2019-2021. (Postdoctoral Researcher)

11. **First Assessment of Shipping emissions in TROPOMI data (FAST)**, financed by the AOMD (Anders Omgaan Met data) program (2015-2019) of the Dutch Ministry of Infrastructure and Water Management, 2019. (Postdoctoral Researcher)
12. **Long-term variability of solar radiation in Greece: effect of air quality and clouds**, MIS 5047844, co-financed by Greece and the European Union (European Social Fund - ESF) through the Operational Program «Human Resources Development, Education and Lifelong Learning 2014-2020», 2020-2021. (Postdoctoral Researcher)
13. **National Network on Climate Change and its Impacts (CLIMPACT)**, implemented under the sub-project 3 of the project "Infrastructure of national research networks in the fields of Precision Medicine, Quantum Technology and Climate Change", funded by the Public Investment Program of Greece, General Secretary of Research and Technology/Ministry of Development and Investments, 2020-2021. (Postdoctoral Researcher)
14. **Sustainable soil management to unleash soil biodiversity potential and increase environmental, economic and social wellbeing (SOILGUARD)**, European Commission, RIA - Research and Innovation action, Horizon 2020, Grand Agreement No. 101000371, 2021-2022. (Postdoctoral Researcher - Collaborator)
15. **Predicting climate change impacts on the crop microbiome and cascading effects on ecosystem services delivery in agroecosystems (MICROSERVICES)**, MIS 5161166, under the framework of Horizon 2020 ERA-NET COFUND scheme BiodivERsA, financed by Hellenic Republic - Ministry of Development and Investments - Operational Program "Competitiveness, Entrepreneurship & Innovation" (EPAnEK), 2022-2023. (Postdoctoral Researcher)
16. **Toolbox for assessing and mitigating Climate Change risks and natural hazards threatening cultural heritage (TRIQUETRA)**, European Commission, RIA - Research and Innovation action, Horizon Europe, Grand Agreement No. 101094818, 2023-2024. (Postdoctoral Researcher)

Atmospheric Research Web Data Bases:

1. **AMFIC Web Satellite Data Base:** Analysis of the SCIAMACHY ENVISAT satellite data (CH₄, CO, NO₂ and SO₂) in order to be included in the AMFIC web data base. This task was implemented within the EU project "Air Quality Monitoring and Forecasting in China".

Participation in International Research Campaigns:

1. Participation in the international measurements campaign that was held at LAP in Thessaloniki from 13 to 26 July 2006 in the framework of **SCOUT-O3**. Measurements with an EKO sun photometer.
2. Satellite data acquisitions and analysis (MODIS, CERES, CALIPSO) and near surface temperature and relative humidity data analysis within the framework of the international **"Thermopolis 2009"** campaign (Athens, July 2009).

Participation in Summer Schools and Seminars:

1. European Space Agency (ESA) Advanced Atmospheric Training Course, Oxford, UK, 15-20 September, 2008.

Reviewer at the Following Scientific Journals:

1. Advances in Atmospheric Sciences (Springer)
2. Atmosphere (MDPI)
3. Atmospheric Chemistry and Physics (EGU - Copernicus)
4. Atmospheric Environment (Elsevier)
5. Atmospheric Measurement Techniques (EGU - Copernicus)
6. Atmospheric Pollution Research (Elsevier)
7. Atmospheric Research (Elsevier)
8. Energies (MDPI)
9. Environmental Pollution (Elsevier)
10. Environmental Research Letters (IOPscience)
11. Environmental Research: Infrastructure and Sustainability (IOPscience)
12. Environmental Science & Pollution Research (Springer)
13. Environmental Science & Technology (ACS Publications)
14. Environmental Science & Technology Letters (ACS Publications)
15. Geoinformatics & Geostatistics: An Overview (SciTechnol)
16. Geophysical Research Letters (AGU - Wiley)
17. International Journal of Remote Sensing (Taylor & Francis Group)
18. Journal of Atmospheric and Solar-Terrestrial Physics (Elsevier)
19. Journal of Mountain Science (Springer)
20. Journal of Photogrammetry and Remote Sensing (Elsevier)
21. One Earth (Cell Press)
22. Process Safety and Environmental Protection (Elsevier)
23. Remote Sensing (MDPI)
24. Remote Sensing of Environment (Elsevier)

25. Science of the Total Environment (Elsevier)
26. Scientific Reports (Springer Nature)
27. Sensors (MDPI)
28. Sustainability (MDPI)
29. Theoretical and Applied Climatology (Springer)

Awards:

1. Young Scientist's Travel Award for Europeans (YSTA), European Geosciences Union (EGU) General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
2. Postdoctoral fellowship within the framework of the Action "SUPPORTING POSTDOCTORAL RESEARCHERS" which is co-financed by the European Social Fund (ESF) and national resources under the operational programme Education and Lifelong Learning (EdLL).

Teaching/Education Experience:

- **Teaching**

1. 2017-2018: adjunct lecturer at the Department of Environmental Engineering of DUTH teaching "Chemical Processes in the Atmosphere" (9th semester).

- **Lecture Notes**

1. Georgoulas A.K., Notes on Chemical Processes in the Atmosphere, Department of Environmental Engineering of DUTH, Thessaloniki, 2017. (in Greek)

- **PhD Theses**

1. During the period 2013-2015 I had a leading role in the supervision of the PhD thesis of Dr. Georgia Alexandri (**G. Alexandri 2015: Study of surface solar radiation with the use of satellite and ground-based observations and climate model simulations**) at the Physics Department of AUTH (Main supervisor: Dr. Charikleia Meleti).
2. During the period 2013-2018 I had an active role in the supervision of the PhD thesis of Dr. Stavros Stathopoulos (**S. Stathopoulos 2021: Study of the interactions of suspended particles and clouds over large urban agglomerations in SE Asia and over the Eastern Mediterranean**) at the Department of Environmental Engineering of DUTH (Main supervisor: Prof. Konstantinos Kourtidis).

- **Undergraduate/Master's Theses**

1. Undergraduate thesis by Paschalis Dalampiras entitled "**A study of the cloud cover weekly cycle over the region of Eastern Mediterranean with the use of satellite data**", Physics Department of AUTH, 2014. (Co-supervision with Dr. Charikleia Meleti)
2. Master's thesis by Charikleia Kosmadaki entitled "**Effect of various meteorological parameters on the agricultural economy**", HOU (postgraduate study program "Environmental Design of Infrastructure Works"), 2015. (Main supervisor)

3. Master's thesis by Agapi Voura entitled "**Covering the energy needs of small tourist units in Eastern Mediterranean with the use of wind turbines targeting in the sustainable development of the region**", HOU (postgraduate study program "Environmental Design of Infrastructure Works"), 2015. (Main supervisor)
4. Master's thesis by Ioanna Kotili entitled "**Variability of soil moisture over Europe as seen from satellite observations and regional climate models**", DUTH (postgraduate study program "Environmental Engineering and Science"), 2016. (Co-supervision with Prof. Konstantinos Kourtidis)
5. Master's thesis by Alkiviadis Kalisoras entitled "**Climate responses due to anthropogenic aerosols radiative forcing**", School of Geology AUTH (postgraduate study program "Meteorology, Climatology and Atmospheric Environment"), 2021. (Co-supervision with Prof. Prodromos Zanis)

Other Working Experience:

- **February - March 2006:**
Working experience in DRAXIS, an Environmental Technologies Company (www.draxis.gr). Main responsibilities: Creation of a data base to include EEA-European Environment Agency reports and participation in the implementation of an environmental impact assessment.
- **August 2007 - May 2011:**
Computer lessons
- **September 2011 - June 2012:**
Mandatory military service in the Hellenic armed forces (Infantry-Armoured Corps)

Membership with Scientific Societies:

- Member of the Greek Physicists Union.
- Member of the European Geosciences Union-EGU.
- Member of the American Geophysical Union-AGU.

Languages:

- Greek (mother language)
- English (fluent)
- German (conversation level)

Computer Systems-Software-Programming:

Microsoft Windows, Linux, Web design (Adobe Dreamweaver, HTML), statistics and plotting tools (Origin, Grapher, Surfer, Sigma plot), Programming (fluent in Fortran and IDL), Shell Scripting, data manipulation (CDO, NCO), radiative transfer modelling (SBDART).

References:

1. **Prof. Prodromos Zanis**, Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Thessaloniki, Greece, email: zanis@geo.auth.gr.
2. **Prof. Konstantinos Kourtidis**, Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece, email: kourtidis@env.duth.gr.
3. **Dr. Vassilis Amiridis**, Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens, Athens, Greece, email: vamoir@noa.gr.
4. **Prof. Jos Lelieveld**, Max Planck Institute for Chemistry, Mainz, Germany, email: jos.lelieveld@mpic.de.
5. **Dr. Ronald van der A**, Royal Netherlands Meteorological Institute (KNMI), de Bilt, the Netherlands, email: avander@knmi.nl.
6. **Dr. Piet Stammes**, Royal Netherlands Meteorological Institute (KNMI), de Bilt, the Netherlands, email: stammes@knmi.nl.