

**Curriculum Vitae
Scientific Activities**

Aristeidis K. Georgoulas

Physicist, MSc, PhD

September 2018

Personal Information:**Name:** Aristeidis K. Georgoulas**Date/Place of Birth:** 11-10-1980, Komotini, Greece**Nationality:** Greek**Marital Status:** Married, one child**Military Obligations:** Fulfilled**Home Address:** Hatziandreou 7, 54635, Thessaloniki, Greece**Phone number 1 (Work):** (0030) 2310829161**Phone number 2 (Mobile):** (0030) 6974225240**E-mail:** ageor@auth.gr**Personal Webpage:** <http://ageor.eu>**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 to the Greek 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 serve as an adjunct lecturer (I teach Chemical Processes in the Atmosphere) and an affiliated researcher at the Cyl. Recently, I started working as a postdoctoral researcher at the Institute for Astronomy, Astrophysics, Space Applications and

Remote Sensing (IAASARS) of the National Observatory of Athens (NOA) and the Department of Meteorology and Climatology of the School of Geology of AUTH in close collaboration with Dr. Vassilis Amiridis (NOA) and Prof. Prodromos Zanis (AUTH). My current research focuses on the investigation of aerosols, clouds, radiation and their interactions, atmospheric pollution and its trends as seen from satellites, on the effect of aerosols and clouds on surface solar radiation levels as well as on the evaluation of regional and global climate simulations. I am also interested in emission estimates of atmospheric pollutants from satellite observations and particulate pollution estimates from sky photos.

I specialize in atmospheric physics and satellite remote sensing, working on the analysis of satellite, ground and climate model data. I am main author (11 papers) or co-author (14 papers) in 25 scientific articles published in peer reviewed scientific journals and 72 papers/abstracts presented at national and international conferences. My main scientific interests are summarized below:

- 1) Monitoring of aerosols, clouds, radiation and their interactions as seen from satellites.
- 2) Estimates of the effect of aerosols and clouds on the surface solar radiation levels, using satellite, ground-based and climate model data and radiative transfer simulations.
- 3) Evaluation of regional and global climate model simulations with the use of satellite and ground-based observations.
- 4) Monitoring of atmospheric pollutants and greenhouse gasses 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:

- **February 2018 - Today:**

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

- **October 2017 - January 2018:**

Postdoctoral researcher at the Royal Netherlands Meteorological Institute (KNMI) in de Bilt the Netherlands, member of the Laboratory of Atmospheric Pollution and Pollution Control Engineering of the Department of Environmental Engineering of the Democritus University of Thrace (DUTH) in Xanthi, Greece where I also serve as a tutor (I teach 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 of the Department of Environmental Engineering of the Democritus University of Thrace

(DUTH) in Xanthi, Greece, Affiliate Research Staff of the Cyprus Institute (Cyl) in Nicosia, Cyprus and scientific collaborator of 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, Aristotle University of Thessaloniki (AUTH) in Thessaloniki, Greece 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 of the Department of Environmental Engineering of DUTH.

- **September 2007 - May 2011:**

PhD candidate at the Laboratory of Atmospheric Pollution and Pollution Control Engineering which belongs to the Department of Environmental Engineering of 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. (Cited in Scopus)
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-WSDDB: 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., Tsirliganis 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, *Atmos. Environ.*, 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., Stavrakas 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., and 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 II: AOD time series for 1995-2017 combined from ATSR ADV and MODIS C6.1 for AOD tendencies estimation*, *Atmospheric Chemistry and Physics Discussions*, doi.org/10.5194/acp-2018-288, in review, 2018.
27. 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*, in review, 2018.
28. Stathopoulos S., Kourtidis K., **Georgoulas A.K.**, *Satellite-based observations of aerosol-cloud relations under different water vapor conditions over the Eastern Mediterranean*, *Atmospheric Research*, in review, 2018.
29. 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., Mkrtchyan 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*, in review, 2018.
30. **Georgoulas A.K.**, van der A R.J., Stammes P., K.F. Boersma, H.J. Eskes, *Trends and trend reversal detection in two decades of tropospheric NO₂ satellite observations*, *Atmospheric Chemistry and Physics Discussions*, in review, 2018.

Table 1. Analysis of the peer-reviewed publications with regard to the journals' impact factor according to Journal Citation Reports (<https://jcr.incites.thomsonreuters.com>) for 2018.

Journal Title	Impact Factor - IF	Papers
Atmospheric Chemistry and Physics	5.509	10
Atmospheric Environment	3.708	2
Atmospheric Research	3.817	4
Computers and Geosciences	2.567	1
Environmental Science And Pollution Research	2.800	1
International Journal of Remote Sensing	1.782	1
ISPRS International Journal of Geo Information	1.723	1
Journal of Engineering Science and Technology Review	-	1
Journal of Environmental Radioactivity	2.263	1
Meteorology And Atmospheric Physics	1.356	1
Science of the Total Environment	4.610	2
	Average IF: 4.145	Papers: 25

Figure 1. Analysis of the peer-reviewed publications with regard to the journals' impact factor according to Journal Citation Reports (<https://jcr.incites.thomsonreuters.com>) for 2018.

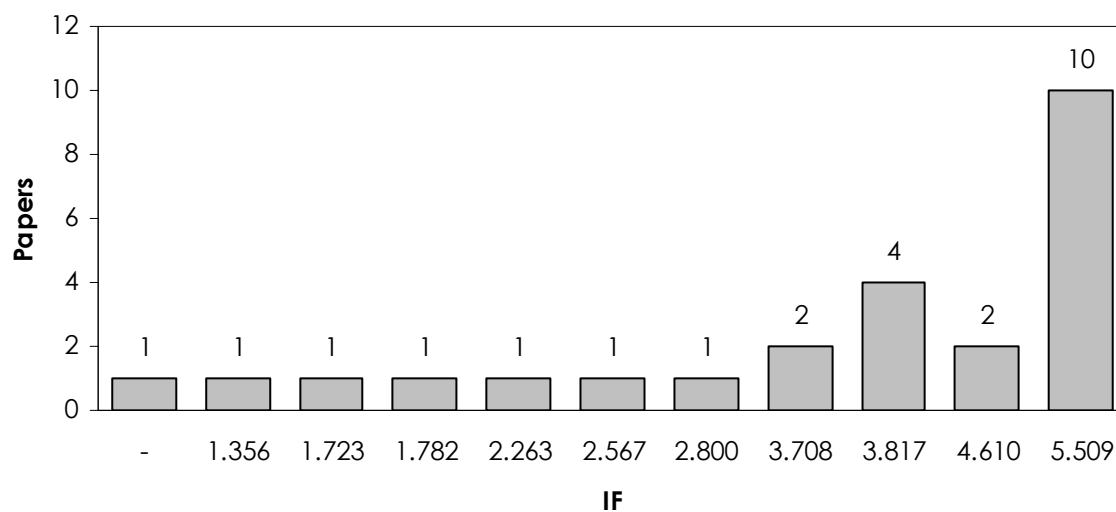


Table 2. Analysis of the peer-reviewed publications with regard to the citations they have received according to Scopus (<https://www.scopus.com>) for 2018.

	Paper	Citations (excl. self citations)	Citations (incl. self citations)
1	Georgoulas et al., 2008, JESTR	1	2
2	Georgoulas et al., 2009, Atmos. Env.	14	15
3	Georgoulas et al., 2009, MAP	8	8
4	Georgoulas et al., 2011, IJRS	6	7
5	Georgoulas and Kourtidis, 2011, ACP	11	16
6	Georgoulas and Kourtidis, 2012, Atmos. Res.	4	9
7	Sanchez-Lorenzo et al., 2012, ACP	16	17
8	Georgoulas et al., 2012, Comp. Geosci.	0	2
9	Kourtidis et al., 2014, ESPR	2	3
10	Georgoulas et al., 2015, Atmos. Res.	5	7
11	Pozzer et al., 2015, ACP	36	40
12	Kourtidis et al., 2015, STOTEN	7	7
13	Kourtidis et al., 2015, ACP	9	15
14	Alexandri et al., 2015, ACP	16	19
15	Kourtidis et al., 2015, J. Environ. Radioactiv.	2	2
16	Georgoulas et al., 2016, ACP	12	15
17	Georgoulas et al., 2016, Atmos. Environ.	11	16

18	Stathopoulos et al., 2017, Atmos. Res.	1	3
19	Alexandri et al., 2017, Atmos. Res.	11	13
20	Kourtidis et al., 2018, STOTEN	0	0
21	de Leeuw et al., 2018, ACP	5	6
22	Proestakis et al., 2018, ACP	5	8
23	Kosmidis et al., 2018, ISPRS Int. Geo-inf.	0	0
24	Georgoulas et al., 2018, ACP	0	0
25	Sogacheva et al., 2018, ACP	0	1
Citations:		182	231

Figure 2. Number of citations per year according to Scopus (<https://www.scopus.com>) for 2018.

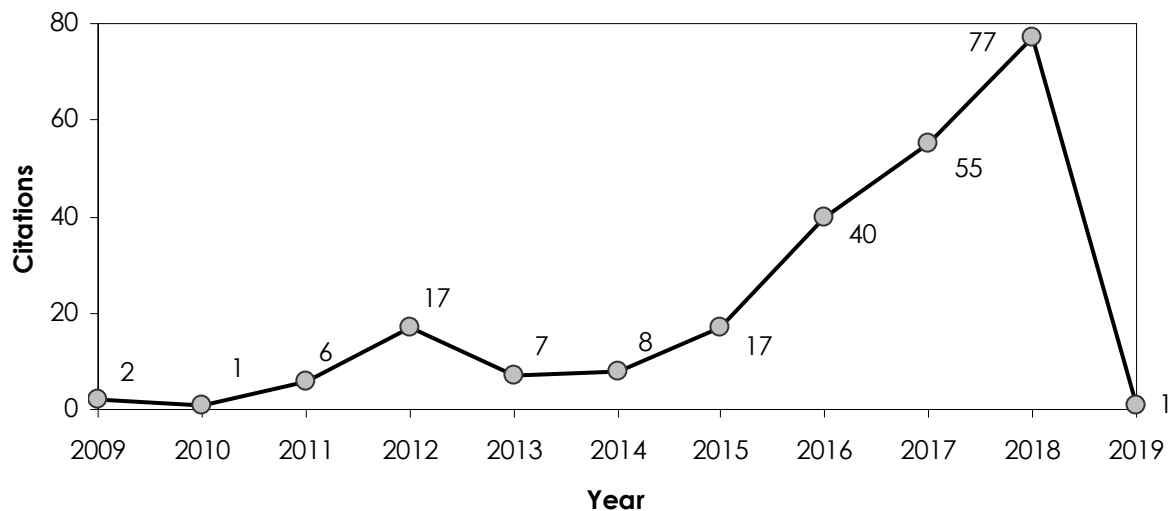
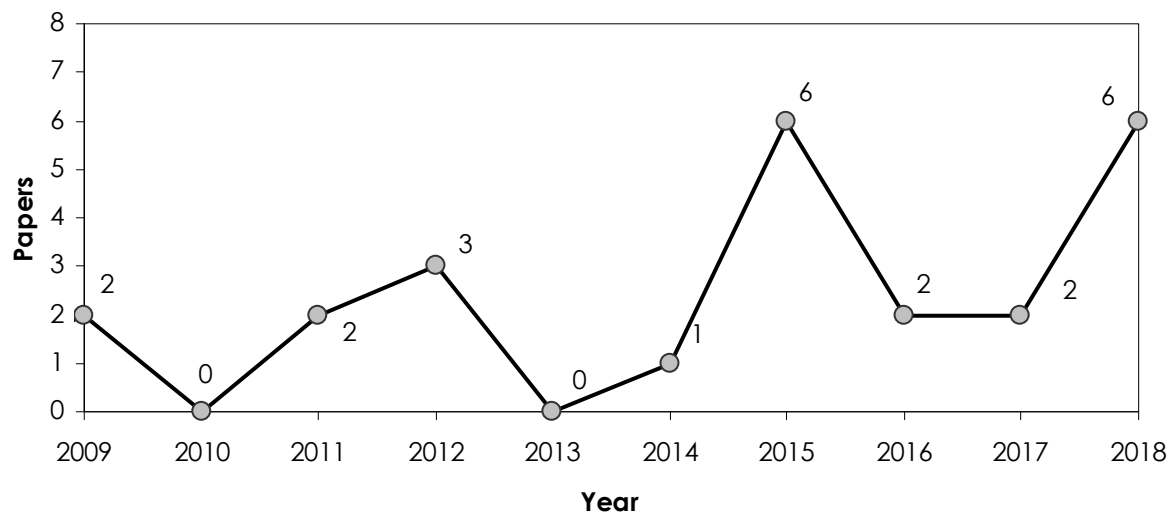


Figure 3. Number of peer-reviewed publications per year according to Scopus (<https://www.scopus.com>) for 2018.



Books:

1. Spyromitros-Xioufis E., Moutzidou A., Papadopoulos S., Vrochidis S., Kompatsiaris Y., **Georgoulas A.K.**, Alexandri G., Kourtidis K., in: Multimedia Tools and Applications for Environmental & Biodiversity Informatics, edited by: Joly A., Vrochidis S., Karatzas K., Karppinen A., and Bonnet. P., Multimedia Systems and Applications book series, Springer International Publishing AG, Cham, Switzerland, 67-92, 2018.

Conference Papers and Abstracts:

1. Koukouli M.E. , Balis D.S., Amiridis V., Kazadzis S., Bais A., **Georgoulas A.**, Joint analysis of the physical characteristics of aerosols over Thessaloniki using ground-based observations and satellite measurements, Proceedings of the 8th Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 24-26 May, 127-134, 2006.
2. **Georgoulas A.K.**, Balis D., Koukouli M.E., Bais A., Zerefos C., A study of the SO₂ total load above the city of Thessaloniki with the use of ground-based and satellite measurements, Proceedings of the 7th Environmental conference of Greek Physicists Union, Konitsa, Greece, 24-26 November, 2006.
3. Misios S., Fragkos K., Zebila M., Zyrichidou I., Alexandri G., **Georgoulas A.**, Kazadzis S., Amiridis V., Bais A., Temporal and spatial distribution of aerosols in the region of Thessaloniki, Proceedings of the 7th Environmental conference of Greek Physicists Union, Konitsa, Greece, 24-26 November, 2006.
4. **Georgoulas A.K.**, Symeonidis P., Kourtidis K., AMFIC web data base - A satellite system for the monitoring and forecasting of atmospheric pollution, Proceedings of the 12th Pan-Hellenic conference of the Greek Physicists Union, Kavala, Greece, 20-23 March, 2008.
5. **Georgoulas A.K.**, Koukouli M.E., Amiridis V., Meleti C., Alexandri G., Balis D., Bais A., Zerefos C., A study of the Sulfur Dioxide transport above the city of Thessaloniki, Greece, Proceedings of the 9th Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 28-31 May, 585-592, 2008.
6. **Georgoulas A.K.**, Kourtidis K.A., Buchwitz M., Schneising O., Burrows J.P., Application of SCIAMACHY satellite methane measurements to regional studies: the case of the Greater Area of Eastern Mediterranean, Geophysical Research Abstracts, Vol. 11, 4443, EGU General Assembly 2009, Vienna, Austria, 19-24 April, 2009.
7. **Georgoulas A.K.** and Kourtidis K.A., Weekly cycles of aerosol and cloud parameters observed with the TERRA and AQUA MODIS global datasets, Geophysical Research Abstracts, Vol. 12, 4015, EGU General Assembly 2010, Vienna, Austria, 2-7 May, 2010.
8. **Georgoulas A.K.** and Kourtidis K.A., Exploiting the aerosol weekly cycle footprint with the use of TERRA MODIS 2000-2009 level-3 and level-2 datasets, Geophysical Research Abstracts, Vol. 12, 4101, EGU General Assembly 2010, Vienna, Austria, 2-7 May, 2010.
9. **Georgoulas A.K.** and Kourtidis K.A., Weekly cycles of aerosol and cloud parameters observed with the TERRA MODIS 2000-2009 global dataset, Proceedings of the 10th Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May, 1100-1108, 2010.
10. Daglis I.A., Keramitsoglou I., Amiridis V., Petropoulos G., Kourtidis K., **Georgoulas A.**, Melas D., Giannaros T., Sobrino J. A., Manunta P., Gröbner J., Paganini M., Bianchi R., Investigating the Urban Heat Island (UHI) effect in Athens through a combination of space, airborne and ground-

based observations, Proceedings of the 10th Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May, 469-477, 2010.

11. Papanastasiou D.K., Amiridis V., **Georgoulas A.K.**, Mamouri R.E., Melas D., Impact of boundary layer evolution on near surface air pollution levels, Proceedings of the 10th Conference on Meteorology, Climatology and Atmospheric Physics, Patras, Greece, 25-28 May, 977-984, 2010.
12. Daglis I.A., Rapsomanikis S., Kourtidis K., Melas D., Papayannis A., Keramitsoglou I., Giannaros T., Amiridis V., Petropoulos G., **Georgoulas A.**, Sobrino J.A., Manunta P., Gröbner J., Paganini M., Bianchi R., Results of the due Thermopolis campaign with regard to the Urban Heat Island (UHI) effect in Athens, Proceedings of the ESA Living Planet Symposium (ESA SP-686), Bergen, Norway, 28 June-2 July, 2010.
13. **Georgoulas A.K.** and Kourtidis K.A., Weekly cycle patterns of total cloud cover over Europe and their connection to aerosol weekly variability and synoptic transport, Geophysical Research Abstracts, Vol. 13, 684, EGU General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
14. Kourtidis K.A., **Georgoulas A.K.**, Kosmidis E., Despotakis F., Symeonidis P., AMFIC - a web data base for hosting and easy retrieval of atmospheric data from satellites, Geophysical Research Abstracts, Vol. 13, 2095, EGU General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
15. Kourtidis K.A., **Georgoulas A.K.**, Rapsomanikis S. Keramitsoglou I. Daglis I., Manunta P., A study of the Athens Urban Heat Island effect during the 2009 THERMOPOLIS campaign, Geophysical Research Abstracts, Vol. 13, 1367, EGU General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
16. Alexandri G., Meleti C., **Georgoulas A.K.**, Balis D., The spatial and temporal variability of shortwave and longwave surface radiation in Europe as derived from satellite and ground based data, Geophysical Research Abstracts, Vol. 13, 9448, EGU General Assembly 2011, Vienna, Austria, 3-8 April, 2011.
17. **Georgoulas A.K.**, Kourtidis K.A., Alexandri G., Sanchez-Lorenzo A., Summer total cloud cover, aerosol and precipitation weekly variabilities over Europe: signs of the aerosol indirect effect?, Proceedings of the 8th International Conference on Air Quality - Science and Application (Air Quality 2012), Athens, Greece, 19-23 March, 2012.
18. Kourtidis K.A., **Georgoulas A.K.**, Alexandri G., Aerosol and cloud relations and weekly cycles over Central Europe, Geophysical Research Abstracts, Vol. 14, 7722, EGU General Assembly 2012, Vienna, Austria, 22-27 April, 2012.
19. Alexandri G., **Georgoulas A.K.**, Meleti C., Kourtidis K., Balis D., Investigation of the aerosol effect on the variability of the shortwave radiation over Europe with the use of ground based and satellite measurements, Geophysical Research Abstracts, Vol. 14, 12389, EGU General Assembly 2012, Vienna, Austria, 22-27 April, 2012.
20. Sanchez-Lorenzo A., Laux P., Hendricks Franssen H.J., **Georgoulas A.K.**, Calbó J., Vogl S., Quaas J., Weekly cycles in meteorological variables over large-scales: fact or myth?, In: Advances in Meteorology, Climatology and Atmospheric Physics, Proceedings of the 11th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 29 May-1 June, 2012, Helmis C.G. and Nastos P. (Eds.), Springer Atmospheric sciences, Springer-Verlag Berlin, Heidelberg, 1211-1217, 2012.
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24. **Georgoulas A.K.**, Zanis P., Pöschl U., Kourtidis K.A., Alexandri G., Ntogras C., Marinou E., Amiridis V., QUantifying the Aerosol Direct and Indirect Effect over Eastern Mediterranean from Satellites (QUADIEEMS): Overview and preliminary results, Geophysical Research Abstracts, Vol. 15, 1348, EGU General Assembly 2013, Vienna, Austria, 7-12 April, 2013.
25. **Georgoulas A.K.**, Kourtidis K.A., Alexandri G., Zanis P., Pöschl U., Quantifying the relative contribution of different aerosol types over Eastern Mediterranean: A decadal high resolution satellite view, Conference Digital Handbook, European Aerosol Conference 2013, Prague, Czech Republic, 1-6 September, 2013.
26. **Georgoulas A.K.**, Zanis P., Pöschl U., Kourtidis K.A., Alexandri G., Ntogras C., Marinou E., Amiridis V., QUantifying the Aerosol Direct and Indirect Effect over Eastern Mediterranean from Satellites (QUADIEEMS): Satellite, model and reanalysis data synergy, AGU Fall Meeting 2013, San Francisco, US, 9-13 December, 2013.
27. Alexandri G., **Georgoulas A.K.**, Meleti C., Balis D., High resolution surface solar radiation patterns over Eastern Mediterranean: Satellite, ground-based, reanalysis data and radiative transfer simulations, AGU Fall Meeting 2013, San Francisco, US, 9-13 December, 2013.
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59. Kourtidis K. and **Georgoulas A.K.**, A New Approach for the Construction of Emission Inventories from Satellite Data, In: Perspectives on Atmospheric Sciences, Proceedings of the 13th International Conference on Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 19-21 September, 2016, Karacostas T., Bais A. and Nastos P.T. (Eds.), Springer Atmospheric sciences, Springer International Publishing AG, Cham, Switzerland, 1007-1013, 2017.
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65. **Georgoulas A.K.**, Alexandri G., Kourtidis K.A., Lelieveld J., Zanis P., Amiridis V., MODIS Collection 6 aerosol patterns and trends over the greater Mediterranean region; evaluation and differences with Collection 5.1, Geophysical Research Abstracts, Vol. 19, 7356, EGU General Assembly 2017, Vienna, Austria, 23-28 April, 2017.
66. Kourtidis K.A. and **Georgoulas A.K.**, Impact of aerosols, dust, water vapor and clouds on fair weather PG and implications for the Carnegie curve, Geophysical Research Abstracts, Vol. 19, 4815, EGU General Assembly 2017, Vienna, Austria, 23-28 April, 2017.

67. Kourtidis K.A., **Georgoulas A.K.**, Mijling B., van der A R., Zhang Q., Ding J., A new approach for the construction of gridded emission inventories from satellite data, Geophysical Research Abstracts, Vol. 19, 4760, EGU General Assembly 2017, Vienna, Austria, 23-28 April, 2017.
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69. Koukouli M., Balis D., van der A R., Ding J., Liu F., Stavrakou T., Bauwens, M., Mueller J.-F., de Leeuw G., Amiridis V., Proestakis M., Kourtidis K., **Georgoulas A.**, Hooyberghs H., Veldeman N., Timmermans R., Zhang Q., A new emission inventory for China based on the monitoring and assessment of regional air quality in China using space observations (MARCOPOLO project), 18th GEIA Conference, Hamburg, Germany, 3-15 September, 2017.
70. Kourtidis K., **Georgoulas A.**, Stathopoulos S., Calculating NO₂ and SO₂ emissions using only columnar data, Geophysical Research Abstracts, Vol. 20, 4455, EGU General Assembly 2018, Vienna, Austria, 8-13 April, 2018.
71. **Georgoulas A.K.**, Tsikerdekis A., Amiridis V., Marinou E., Benedetti A., Zanis P., Alexandri G., Kourtidis K., Lelieveld J., Evaluation of the MACC reanalysis dust product over Europe, Northern Africa and Middle East using CALIOP/CALIPSO satellite observations, Geophysical Research Abstracts, Vol. 20, 17050-1, EGU General Assembly 2018, Vienna, Austria, 8-13 April, 2018.
72. Tetoni E., Amiridis V., Giannakaki E., Marinou E., Kottas M., Gialitaki A., Proestakis E., Solomos S., **Georgoulas A.**, Stachlewska I., Baars H., Engelmann R., Hofer J., Improvements on CALIPSO v4.10 aerosol product according to EARLINET, paper 80, European Lidar Conference (ELC) 2018, Thessaloniki, Greece, 3-5 July, 2018.

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.

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. (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. (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. (Researcher)
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, 2018. (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
2. Atmosphere
3. Atmospheric Chemistry and Physics
4. Atmospheric Environment
5. Atmospheric Measurement Techniques
6. Atmospheric Pollution Research
7. Atmospheric Research
8. Energies
9. Environmental Pollution
10. Environmental Science & Pollution Research

11. Geoinformatics & Geostatistics: An Overview
12. International Journal of Remote Sensing
13. Journal of Atmospheric and Solar-Terrestrial Physics
14. Journal of Photogrammetry and Remote Sensing
15. Remote Sensing
16. Science of the Total Environment
17. Sensors
18. Sustainability
19. Theoretical and Applied Climatology

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. Since 2013 I have an active role in the supervision of the PhD thesis of Mr. Stavros Stathopoulos (**Impact of South-East Asian large urban clusters on particulate matter and clouds**) 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)

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 Greek 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. Konstantinos Kourtidis**, Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece, email: kourtidi@env.duth.gr.
2. **Prof. Prodromos Zanis**, Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Thessaloniki, Greece, email: zanis@geo.auth.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.