

CURRICULUM VITAE
OF

Dr. PRODROMOS ZANIS

Associate Professor
Department of Meteorology and Climatology,
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CURRICULUM VITAE

1. PERSONAL INFORMATION

Full name	Prodromos Zanis
Father's name	Pantelis
Mother's name	Eleni
Sex	Male
Date of birth	9-12-1969
Place of birth	Xanthi
Home Address	Solonos 65-67, 54248 Thessaloniki, tel. 2310-811994
Marital status	Married - two kids

2. EDUCATION

1975-1987	Primary and Secondary Education, Xanthi, High School Degree with Excellent Grade (19.3).
1987-1992	Degree in Physics, Physics Department, School of Sciences, Aristotle University of Thessaloniki, Greece Thesis «Principal component analysis in climatology and application in precipitation of mediterranean», 50 pages, 1992.
1993-1994	Masters of Science (M.Sc.) in Atmospheric Sciences, School of Environmental Sciences, University of East Anglia, Norwich, U.K. MSc Thesis «Effects of transport on the mid-latitude stratospheric ozone depletion», 84 pages, 1994.
1995-1999	Ph.D. degree in Natural Sciences, School of Sciences, University of Bern, Bern, Switzerland PhD thesis «In-situ photochemical control of ozone at the Jungfraujoeh in the Swiss Alps», εκδότης Geographica Bernensia, G59, ISBN 3-906151-34-4, 126 pages, 1999.
Foreign Languages	English, German

3. PROFESSIONAL EMPLOYMENT

11/1995-10/1996	Research assistant at Physical Geography, University of Bern funded by Swiss Department of Environment (BUWAL).
11/1996-12/1996	Visiting researcher at School of Environmental Sciences University of East Anglia, Norwich, U.K.
1/1997-6/1997	Research assistant at Laboratory of Radiochemistry and Environmental Chemistry, University of Bern and at Paul Scherrer Institute (PSI), Villigen, Switzerland funded by EU project VOTALP (Vertical Ozone Transport in the Alps), (ENV4-CT95-0025).
7/1997-6/1999	Research assistant at Physical Geography, University of Bern

	funded by Commission of Technology and Innovation (KTI, Switzerland).
9/1999 - 8/2002	Ερευνητής στο Εργαστήριο Φυσικής της Ατμόσφαιρας, Τμήμα Φυσικής, Α.Π.Θ. Χρηματοδότηση από το Ευρωπαϊκό πρόγραμμα STACCATO (Influence of Stratosphere-Troposphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity) του 5 ^{ου} Προγράμματος-Πλαίσιο της Ευρωπαϊκής Κοινότητας (EVK2-CT-1999-00050).
2/2000 - 1/2003	Postdoctoral researcher at Laboratory of Atmospheric Physics, Physics Department, Aristotle University of Thessaloniki, Greece funded by EU project of the V framework, STACCATO (Influence of Stratosphere-Troposphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity) (EVK2-CT-1999-00050), (EVK2-1999-00286).
9/2002- 3/2006	Scientific collaborator - consultant of the group CABO (Climate and Background Ozone), Physical Geography, University of Bern, in EU project TROTREP (Tropospheric Ozone and Precursors, Trends, Budget, and Policy) of the V framework (EVK2-1999-00286)
6/2003-4/2007	Research assistant at the Research Centre for Atmospheric Physics and Climatology (fixed position), Academy of Athens, Greece
7/2005	Visiting scientist “Abdus Salam International Centre for Theoretical Physics (ICTP)”, Trieste, Italy.
4/2007- 12/2013	Assistant Prof., Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Greece
1/2014- today	Associate Prof., Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Greece
9/2016- 11/2017	Director of the MSc course in "Meteorology Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, Greece
12/2017- today	Director of the Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Greece
20 April 2018	Election at the Grade of the First Grade Professor, Department Meteorology and Climatology, School of Geology, Faculty of Sciences, Aristotle University of Thessaloniki

4. RESEARCH WORK / PUBLICATIONS

4a. Articles in peer-review journals

- 4a.1) Zanis P., E. Schuepbach, H.E. Scheel, M. Baudenbacher, and B. Buchmann, Inhomogeneities and trends in the surface ozone record (1986-1996) at Jungfraujoch in the Swiss Alps, **Atmospheric Environment**, 33, 3777-3786, 1999a.
- 4a.2) Zanis P., E. Schuepbach, H.W. Gaeggeler, S. Huebener, and L. Tobler, Factors controlling beryllium-7 at Jungfraujoch in Switzerland, **Tellus**, 51(4), 789-805, 1999b.
- 4a.3) Zanis P., P.S. Monks, E. Schuepbach, and S.A. Penkett, On the relationship of HO₂+RO₂ with J(O¹D) during FREETEX '96 at the Jungfraujoch Observatory (3,580 m asl) in the Swiss Alps, **Journal of Geophysical Research**, 104(D21), 26,913-26,926, 1999c.
- 4a.4) Zanis P., P.S. Monks, E. Schuepbach, and S.A. Penkett, The role of in-situ photochemistry in the control of ozone during spring at the Jungfraujoch Observatory (3,580 m asl) – Comparison of model results with measurements, **Journal of Atmospheric Chemistry**, 37(1), 1-27, 2000a.
- 4a.5) Carpenter L.J., T. J. Green, G. P. Mills, S. Bauguitte, S.A. Penkett, P. Zanis, E. Schuepbach, N. Schmidbauer, P.S. Monks, C. Zellweger, Oxidised nitrogen and ozone production efficiencies in the springtime free troposphere over the Alps, **Journal of Geophysical Research**, 105(D11), 14547-14559, 2000.
- 4a.6) Zanis P., P.S. Monks, E. Schuepbach, L.J. Carpenter, T.J. Green, G.P. Mills, S. Bauguitte, and S.A. Penkett, In-situ ozone production under free tropospheric conditions during FREETEX '98 in the Swiss Alps, **Journal of Geophysical Research**, 105(D19), 24,223-24,234, 2000b.
- 4a.7) Broennimann S., E. Schuepbach, P. Zanis, B. Buchmann, and H. Wanner, A climatology of regional background ozone at different elevations in Switzerland (1992-1998), **Atmospheric Environment**, 34, 5191-5198, 2000.
- 4a.8) Schuepbach E., T.K. Friedli, P. Zanis, P.S. Monks, and S.A. Penkett, State space analysis of changing seasonal ozone cycles (1988-1997) at Jungfraujoch (3580 m above seal level) in Switzerland, **Journal of Geophysical Research**, 106(D17), 20,413-20,427, 2001.
- 4a.9) Zanis P., C.S. Zerefos, S. Gilge, D. Melas, D. Balis, I. Ziomias, E. Gerasopoulos, P. Tzoumaka, U. Kaminski, W. Fricke, Comparison of measured and modelled surface ozone concentrations at two different sites in Europe during the solar eclipse on August 11, 1999, **Atmospheric Environment**, 35, 4663-4673, 2001.
- 4a.10) Zerefos C.S., D. S. Balis, P. Zanis, C. Meleti, A.F. Bais, K. Tourpali, D. Melas, I. Ziomias, E. Galani, K. Kourtidis, A. Papayannis and Z. Gogosheva, Changes in surface UV solar irradiance and ozone over the Balkans during the eclipse of August 11, 1999, **Advances in Space Research**, 27(12), 1955-1963, 2001.
- 4a.11) Gerasopoulos E., P. Zanis, A. Stohl, C.S. Zerefos, C. Papastefanou, W. Ringer, L. Tobler, S. Huebener, H.W. Gaeggeler, H.J. Kanter, L. Tositti and S. Sandrini, A climatology of ⁷Be at four high-altitude stations at the Alps and the Northern Apennines, **Atmospheric Environment**, 35, 6347-6360, 2001.
- 4a.12) Zanis P., K. Kourtidis, B. Rappenglueck, C. Zerefos, D. Melas, D. Balis, R. Schmitt, S. Rapsomanikis, and P. Fabian, A case study on the possible link between surface ozone photochemistry and total ozone column during the PAUR II experiment at Crete: Comparison of observations with box model calculations, **Journal of Geophysical Research**, 107(D18), 8136, doi:10.1029/2000JD000137, 2002.
- 4a.13) Zerefos C.S., K.A. Kourtidis, D. Melas, D. Balis, P. Zanis, L. Katsaros, H.T. Mantis, C. Repapis, I. Isaksen, J. Sundet, J. Herman, P.K. Bhartia, and B. Calpini, Photochemical Activity and Solar Ultraviolet Radiation (PAUR) Modulation Factors: An overview of the

- project, **Journal of Geophysical Research**, 107(D18), 8134, doi:10.1029/2000JD000134, 2002.
- 4a.14) Solomon K. R., X. Tang, S. R. Wilson, P. Zanis, and A. F. Bais, Changes in tropospheric composition and air quality due to stratospheric ozone depletion, **Photochem. Photobiol. Sci.**, 2, 62–67, 2003.
- 4a.15) Zanis P., E. Gerasopoulos, A. Priller, C. Schnabel, A. Stohl, C. Zerefos, H. W. Gäggeler, L. Tobler, P.W. Kubik, H. J. Kanter, H. E. Scheel, J. Luterbacher, and M. Berger, An estimate of the impact of stratosphere-to-troposphere transport (STT) on the lower free tropospheric ozone over the Alps using ^{10}Be and ^7Be measurements, **Journal of Geophysical Research**, 108(D12), 8520, doi: 10.1029/2002JD002604, 2003a.
- 4a.16) Galani E., D. Balis, P. Zanis, C. Zerefos, A. Papayannis, H. Wernli and E. Gerasopoulos, Observations of stratosphere-troposphere transport events over the eastern Mediterranean using a ground-based lidar system, **Journal of Geophysical Research**, 108(D12), 8527, doi:10.1029/2002JD002596, 2003.
- 4a.17) Cristofanelli P., P. Bonasoni, W. Collins, J. Feichter, C. Forster, P. James, A. Kentarchos, P.W. Kubik, C. Land, J. Meloen, G. J. Roelofs, P. Siegmund, M. Sprenger, C. Schnabel, A. Stohl, L. Tobler, L. Tositti, T. Trickl and P. Zanis, Stratosphere-to-troposphere transport: A model and method evaluation, **Journal of Geophysical Research**, 108(D12), 8525, doi:10.1029/2002JD002600, 2003.
- 4a.18) Stohl A., P. Bonasoni, P. Cristofanelli, W. Collins, J. Feichter, A. Frank, C. Forster, E. Gerasopoulos, H. Gaeggeler, P. James, T. Kentarchos, H. Kromp-Kolb, B. Krueger, C. Land, J. Meloen, A. Papayannis, A. Priller, P. Seibert, M. Sprenger, G. J. Roelofs, H. E. Scheel, C. Schnabel, P. Siegmund, L. Tobler, T. Trickl, H. Wernli, V. Wirth, P. Zanis and C. Zerefos, Stratosphere-troposphere exchange – a review, and what we have learned from STACCATO, **Journal of Geophysical Research**, 108(D12), 8516, doi:10.1029/2002JD002490, 2003.
- 4a.19) Gerasopoulos E., C. S. Zerefos, C. Papastefanou, P. Zanis, K. O'Brien, Low-frequency variability of beryllium-7 surface concentrations over the Eastern Mediterranean, **Atmospheric Environment**, 37(13), 1745-1756, 2003.
- 4a.20) Zanis P., P.S. Monks, T.J. Green, E. Schuepbach, L.J. Carpenter, G.P. Mills, A. R. Richard, N. Brough and S.A. Penkett, Seasonal variation of peroxy radicals in the lower free troposphere based on observations from the FREE Tropospheric EXperiments at Jungfrauoch in the Swiss Alps, **Geophysical Research Letters**, 30(10), 1497, doi:10.1029/2003GL017122, 2003b.
- 4a.21) Zanis P., T. Trickl, A. Stohl, H. Wernli, O. Cooper, C. Zerefos, H. Gaeggeler, C. Schnabel, L. Tobler, P. Kubik, A. Priller, H. E. Scheel, H.J. Kanter, P. Cristofanelli, C. Forster, P. James, E. Gerasopoulos, A. Delcloo, A. Papayannis and H. Claude, Forecast, observation and modelling of a deep stratospheric intrusion event over Europe, **Atmospheric Chemistry and Physics**, 3, 763-777, 2003c.
- 4a.22) Balis D.S., V. Amiridis, C. Zerefos, E. Gerasopoulos, M. Andreae, P. Zanis, A. Kazantzidis, S. Kazadzis and A. Papayannis, Raman lidar and sunphotometric measurements of aerosol optical properties over Thessaloniki, Greece during a biomass burning episode, **Atmospheric Environment**, 37, 4529-4538, 2003.
- 4a.23) Zerefos C. S., K. Eleftheratos, D. S. Balis, P. Zanis, G. Tselioudis and C. Meleti, Evidence of impact of aviation on cirrus cloud formation, **Atmospheric Chemistry and Physics**, 3, 1633–1644, 2003.
- 4a.24) Priller A., M. Berger, H. W. Gaeggeler, E. Gerasopoulos, P. W. Kubik, C. Schnabel, L. Tobler, E. Wild, P. Zanis, C. Zerefos, Accelerator Mass Spectrometry of Particle Bound ^{10}Be , **Nuclear Instrumental Methods in Physics Research B**, 223–224 (2004) 601–607, 2004.

- 4a.25) Isaksen I. S. A., C. Zerefos, K. Kourtidis, C. Meleti, S. B. Dalsøren, J. K. Sundet, A. Grini, P. Zanis and D. Balis, Tropospheric ozone changes at unpolluted and semipolluted regions induced by stratospheric ozone changes, **Journal of Geophysical Research**, 110, D02302, doi:10.1029/2004JD004618, 2005.
- 4a.26) Papayannis A., D. Balis, P. Zanis, E. Galani, H. Wernli, C. Zerefos, A. Stohl, S. Eckhardt, and V. Amiridis, Sampling of an STT event over the Eastern Mediterranean region by lidar and electrochemical sonde, **Annales Geophysicae**, 23, 2039–2050, 2005.

After evaluated election in the grade of the Assistant Professor

- 4a.27) Gerasopoulos E., P. Zanis, C. Papastefanou, C. S. Zerefos, A. Ioannidou, H. Wernli, A complex case study of down to the surface intrusions of persistent stratospheric air over the Eastern Mediterranean, **Atmospheric Environment**, 40, 4113–4125, 2006.
- 4a.28) Zanis P., E. Maillard, J. Stahelin, C. Zerefos, E. Kosmidis and K. Tourpali, On the turnaround of stratospheric ozone trends deduced from the re-evaluated Umkehr record of Arosa, Switzerland, **Journal of Geophysical Research**, 111, D22307, doi:10.1029/2005JD006886, 2006.
- 4a.29) Zanis P., A. Ganser, C. Zellweger, S. Henne, M. Steinbacher and J. Stahelin, Seasonal variability of measured ozone production efficiencies in the lower free troposphere of Central Europe, **Atmospheric Chemistry and Physics**, 7, 223–236, 2007.
- 4a.30) Eleftheratos K., C. S. Zerefos, P. Zanis, D. S. Balis, G. Tselioudis, K. Gierens, and R. Sausen, A study on natural and manmade global interannual fluctuations of cirrus cloud cover for the period 1984-2004, **Atmospheric Chemistry and Physics**, 7 (10), 2631-2642, 2007.
- 4a.31) Zerefos C., K. Eleftheratos, P. Zanis, D. S. Balis and G. Tselioudis, Search for man-made cirrus contrails over Southeast Asia, **Terrestrial Atmospheric and Oceanic Sciences**, Vol. 18, No. 3, 459-474, 2007.
- 4a.32) Repapis C.C., C.M. Philandras, P.D. Kalabokas, P. Zanis and C.S. Zerefos, Is the last years abrupt warming in the National Observatory of Athens records a climate change manifestation? **Global NEST Journal**, Vol 9, No 2, pp 107-116, 2007.
- 4a.33) Zanis P., E. Katragkou, M. Kanakidou, B. Psiloglou, S. Karathanasis, M. Vrekoussis, E. Gerasopoulos, I. Lysaridis, K. Markakis, A. Poupkou, V. Amiridis, D. Melas, N. Mihalopoulos, and C. Zerefos, Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006, **Atmospheric Chemistry and Physics**, 7, 6061–6073, 2007.
- 4a.34) Gerasopoulos E., C. S. Zerefos, I. Tsagouri, D. Founda, V. Amiridis, A. F. Bais, A. Belehaki, N. Christou, G. Economou, M. Kanakidou, A. Karamanos, M. Petrakis, P. Zanis, The Total Solar Eclipse of March 2006: Overview, **Atmospheric Chemistry and Physics**, 8, 5205–5220, 2008.
- 4a.35) Kioutsioukis I., D. Melas and P. Zanis, Statistical Downscaling of Daily Precipitation over Greece, **International Journal of Climatology**, 28, 679–691, DOI: 10.1002/joc.1557, 2008.
- 4a.36) Harris N.R.P., E. Kyrö, J. Staehelin, D. Brunner, S-B. Andersen, S. Godin-Beekmann, S. Dhomse, P. Hadjinicolaou, G. Hansen, I. Isaksen, A. Jrrar, A. Karpetchko, R. Kivi, B. Knudsen, P. Krizan, J. Lastovicka, J. Maeder, Y. Orsolini, J.A. Pyle, M. Rex, K. Vanicek, M. Weber, I. Wohltmann, P. Zanis, and C. Zerefos, Ozone trends at northern mid- and high latitudes – a European perspective, **Annales Geophysicae**, 26, 1207-1220, 2008.
- 4a.37) Krüger B. C., E. Katragkou, I. Tegoulis, P. Zanis, D. Melas, E. Coppola, S. Rauscher, P. Huszar and T. Halenka, Regional decadal photochemical model calculations for Europe concerning ozone levels in a changing climate, **Quarterly Journal of the Hungarian Meteorological Service, IDOJARAS**, Vol. 112, No. 3–4, pp. 285–300, 2008.

- 4a.38) Zanis P., C. Douvis, I. Kapsomenakis, I. Kioutsioukis and D. Melas, A sensitivity study of the Regional Climate Model (RegCM3) to the convective scheme with emphasis in central eastern and southeastern Europe, **Theoretical and Applied Climatology**, 97, 327–337, DOI 10.1007/s00704-008-0075-8, 2009.
- 4a.39) Founda D., H. D. Kambezidis, M. Petrakis, P. Zanis and C. Zerefos, A Correction of the recent air temperature record at the historical meteorological station of the National Observatory of Athens (NOA) due to instrument change, **Theoretical and Applied Climatology**, 97, 385–389, DOI 10.1007/s00704-008-0084-7, 2009.
- 4a.40) Zanis P., I. Kapsomenakis, C. Philandras, K. Douvis, D. Nikolakis, E. Kanelopoulou, C. Zerefos, and C. Repapis, Analysis of an ensemble of present-day and future Regional Climate Simulations for Greece, **International Journal of Climatology**, 29, 1614–1633, DOI: 10.1002/joc.1809, 2009.
- 4a.41) Amiridis V., D.S. Balis, E. Giannakaki, A. Stohl, S. Kazadzis, M. Koukouli, P. Zanis, Optical characteristics of biomass burning aerosols over Southeastern Europe determined from UV-Raman lidar measurements, **Atmospheric Chemistry and Physics**, 9, 2431–2440, 2009.
- 4a.42) Zanis P., A study on the direct effect of anthropogenic aerosols on near surface temperature over Southeastern Europe during summer 2000 based on regional climate modeling, **Annales Geophysicae**, 27, 3977–3988, 2009.

After the evaluation for permanence in the grade of the Assistant Professor

- 4a.43) Akritidis D., P. Zanis, I. Pytharoulis, A. Mavrakis and Th. Karacostas, A deep stratospheric intrusion event down to the earth's surface of the megacity of Athens, **Meteorology and Atmospheric Physics**, 109 (1-2), 9-18, DOI: 10.1007/s00703-010-0096-6, 2010.
- 4a.44) Katragkou E., P. Zanis, I. Tegoulis, D. Melas, I. Kioutsioukis, B.C. Krüger, P. Huszar, T. Halenka, S. Rauscher, Decadal regional air quality simulations over Europe in present climate: near surface ozone sensitivity to external meteorological forcing, **Atmospheric Chemistry and Physics**, 10, 11805–11821, doi:10.5194/acp-10-11805-2010, 2010.
- 4a.45) Amiridis V., E. Giannakaki, D.S. Balis, I. Pytharoulis, P. Zanis, E. Gerasopoulos, S. Kazadzis, D. Melas, C. Zerefos, Smoke injection heights from agricultural burning in Eastern Europe as seen by CALIPSO, **Atmospheric Chemistry and Physics**, 10, 11567–11576, doi:10.5194/acp-10-11567-2010, 2010.
- 4a.46) Poupkou A., P. Zanis, P. Nastos, D. Papanastasiou, D. Melas, K. Tourpali, C. Zerefos, Present climate trend analysis of the Etesian winds in the Aegean Sea, **Theoretical and Applied Climatology**, 106, 459–472, DOI: 10.1007/s00704-011-0443-7, 2011.
- 4a.47) Zanis P., E. Katragkou, I. Tegoulis, A. Poupkou, D. Melas, P. Huszar, F. Giorgi, Evaluation of near surface ozone in air quality simulations forced by a regional climate model over Europe for the period 1991–2000, **Atmospheric Environment**, 45, 6489–6500, doi:10.1016/j.atmosenv.2011.09, 2011.
- 4a.48) Katragkou E., P. Zanis, I. Kioutsioukis, I. Tegoulis, D. Melas, B.C. Krüger, E. Coppola, Future climate change impacts on surface ozone from regional climate-air quality simulations over Europe, **Journal of Geophysical Research**, 116, D22307, doi:10.1029/2011JD015899, 2011.
- 4a.49) Huszar P., K. Juda-Rezler, T. Halenka, H. Chervenkov, D. Syrakov, B. C. Krueger, P. Zanis, D. Melas, E. Katragkou, M. Reizer, W. Trapp and M. Belda, Potential climate change impacts on ozone and PM levels over Central and Eastern Europe from high resolution simulations, **Climate Research**, 50, 51–68, doi: 10.3354/cr01036, 2011.
- 4a.50) Zanis P., C. Ntogras, A. Zakey, I. Pytharoulis, Th. Karacostas, Regional climate feedback of anthropogenic aerosols over Europe with RegCM3, **Climate Research**, 52, 267–278, 2012.

- 4a.51) Juda-Rezler K., M. Reizer, P. Huszar, B.C. Krüger, P. Zanis, D. Syrakov, E. Katragkou, W. Trapp, D. Melas, H. Chervenkov, I. Tegoulis, T. Halenka, On the effect of climate change on regional air quality over central-eastern Europe: concept, evaluation and future projections, **Climate Research**, 53, 179–203, doi: 10.3354/cr01072, 2012.
- 4a.52) Tolika K., P. Zanis, C. Anagnostopoulou, Regional climate change scenarios for Greece: Future temperature and precipitation projections from ensembles of RCMs, **Global Nest Journal**, Vol 14, No4, pp 407-421, 2012.

After the evaluation for election in the grade of the Associate Professor

- 4a.53) Aggelis D. , P. Zanis, C. Zerefos, A. Bais, P. Nastos, Mapping of surface ozone seasonality and trends across Europe during 1997- 2006 through kriging interpolation to observational data, **Water, Air, & Soil Pollution**, 224:1501, doi:10.1007/s11270-013-1501-9, 2013.
- 4a.54) Leventidou E., P. Zanis, D. Balis, E. Giannakaki, I. Pytharoulis, V. Amiridis, Factors affecting the comparisons of planetary boundary layer height retrievals from CALIPSO, ECMWF and Radiosondes over Thessaloniki, Greece, **Atmospheric Environment**, 74, 360-366, 2013.
- 4a.55) Tourpali K. and P. Zanis, Winter anticyclonic blocking effects over Europe during 1960–2000 from an ensemble of regional climate models, **Climate Research**, 57: 81–91, 2013.
- 4a.56) Akritidis D., P. Zanis, E. Katragkou, M. Schultz, I. Tegoulis, A. Poupkou, K. Markakis I. Pytharoulis, Th. Karacostas, Evaluating the impact of chemical boundary conditions on near surface ozone in regional climate–air quality simulations over Europe, **Atmospheric Research**, 134, 116–130, 2013.
- 4a.57) Anagnostopoulou C., P. Zanis, E. Katragkou, I. Tegoulis and K. Tolika, Recent past and future patterns of the Etesian winds based on regional scale climate model simulations, **Climate Dynamics**, 42:1819–1836, 2014. doi: 10.1007/s00382-013-1936-0
- 4a.58) Zanis P., P. Hadjinicolaou, A. Pozzer, E. Tyrlis, S. Dafka, N. Mihalopoulos, J. Lelieveld, Summertime free tropospheric ozone pool over the Eastern Mediterranean/Middle East, **Atmospheric Chemistry and Physics**, 14, 115–132, 2014.
- 4a.59) Feidas H., A. Karagiannidis, S. Keppas, M. Vaitis, T. Kontos, P. Zanis, D. Melas, E. Anadranistakis, Modeling and mapping temperature and precipitation climate data in Greece using topographical and geographical parameters, **Theoretical and Applied Climatology**, 118:133–146, 2014. doi: 10.1007/s00704-013-1052-4
- 4a.60) Zerefos C.S., K. Tourpali, P. Zanis, K. Eleftheratos, C. Repapis, A. Goodman, D. Wuebbles, I.S.A. Isaksen, and J. Luterbacher, Evidence for an earlier greenhouse cooling effect in the stratosphere before the 1980s over the Northern Hemisphere, **Atmospheric Chemistry and Physics**, 14, 7705–7720, 2014.
- 4a.61) Poupkou A., K. Markakis, N. Liora, T.M. Giannaros, P. Zanis, U. Im, N. Daskalakis, S. Myriokefalitakis, J.W. Kaiser, D. Melas, M. Kanakidou, Th. Karacostas, C. Zerefos, A modeling study of the impact of the 2007 Greek forest fires on the gaseous pollutant levels in the Eastern, **Atmospheric Research**, Atmospheric Research 148, 1–17, 2014.
- 4a.62) Akritidis D., P. Zanis, I. Pytharoulis, Th. Karacostas, Near-surface ozone trends over Europe in RegCM3/CAMx simulations for the time period 1996-2006, **Atmospheric Environment**, 97, 6-18, 2014.
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► **Table with analysis of the peer-reviewed publications with regard the journal's impact factor (5-year Impact factor) according to Journal Citation Reports for 2016.**

Journal title	Impact factor	Articles number
Advances in Space Research	1.463	1
Annals of General Psychiatry	1.610	1
Annales Geophysicae	1.629	3
Atmospheric Chemistry and Physics	5.896	16
Atmospheric Environment	3.948	12
Atmospheric Research	3.753	4
Climate Dynamics	4.744	3
Climate Research	2.814	5
Geoscientific Model Development	5.066	
Geophysical Research Letters	4.579	1
Global NEST Journal	0.814	2
Idojaras	0.944	1
International Journal of Climatology	4.007	2
Journal of Affective Disorders	3.845	1
Journal of Atmospheric Chemistry	1.943	1
Journal of Geophysical Research – Atmospheres	3.850	13
Meteorology and Atmospheric Physics	1.539	1
Nuclear Instrumental Methods in Physics Research B	1.113	1
Photochemical & Photobiological Sciences	2.474	1
Science of the Total Environment	5.102	1
Tellus B	3.686	1
Terrestrial Atmospheric and Oceanic Sciences	0.941	1
Theoretical and Applied Climatology	2.621	5
Water Air and Soil Pollution	1.932	1
Average Impact Factor	3.80	Total number of articles: 80

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- 4d.56) Krueger B.C., E. Katragkou, I. Tegoulis, P. Zanis, D. Melas, Regional air quality model calculations for Europe in a changing climate, IGAC 10th International Conference, 7-12 September 2008, Annecy, France.
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- 4d.60) Zanis P., C. Ntografas, I. Pytharoulis, T. Karacostas, A. Zakey, On the direct effect of anthropogenic aerosols on European climate based on regional climate modeling with RegCM3, International workshop on: Atmospheric Composition Changes: Climate-Chemistry Interactions, Lecce, Italy - November 2-4, 2009.

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- 4d.61) Katragkou E., P. Zanis, I. Tegoulas, D. Melas, Regional climate simulations over Europe for present and future climate: implications on surface ozone, International Conference on the Coordinated Regional Climate Downscaling Experiment, Trieste, Italy, 21-24 March 2011.
- 4d.62) Katragkou E., P. Zanis, I. Tegoulas, D. Melas, Regional climate-air quality simulations for the reference decade 1991-2000: Impact of meteorological forcing on surface ozone over Europe, 2nd Tropospheric Ozone Workshop, Toulouse, 11-14 April, 2011.
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- 4d.65) Feidas H., Zanis P., Melas D., Vaitis M., Anandranistakis E., Symeonidis P. and Pantelopoulos S., The Geographic Climate Information System Project (GEOCLIMA): Overview and preliminary results, Geophysical Research Abstracts, Vol. 14, EGU2012-4442, 2012, EGU General Assembly 2012.
- 4d.66) Marougianni G., D. Melas, I. Kioutsoukis, H. Feidas, P. Zanis, and E. Anandranistakis, Trend analysis of air temperature and precipitation time series over Greece: 1955-2010, Geophysical Research Abstracts, Vol. 14, EGU2012-7911, 2012, EGU General Assembly 2012.
- 4d.67) Akritidis D., P. Zanis, E. Katragkou, I. Tegoulas, A. Poupkou, K. Markakis, Th. Karacostas, and I. Pytharoulis, Evaluation of regional climate - air quality simulations over Europe for the period 1996-2006 with emphasis on tropospheric ozone: The impact of chemical boundary conditions, Geophysical Research Abstracts, Vol. 14, EGU2012-4647, 2012, EGU General Assembly 2012.
- 4d.68) Katragkou E., P. Zanis, C. Ntogras, S. Mystakidis, D. Melas, C. Feidas, A Transient high-resolution regional climate model simulation over Greece for the period 1960-2100 in the framework of GEOCLIMA project: Preliminary results, 6th ICTP Workshop on «The Theory and Use of REGIONal Climate Models», May 7 - 18, Trieste, Italy, 2012.
- 4d.69) Zanis P., Katragkou E., Tegoulas I., Akritidis D., Melas D., Regional climate - air quality simulations over Europe with RegCM/CAMx in past and future climate, 6th ICTP Workshop on the Theory and Use of regional Climate Models, Trieste, Italy, 7-18 May, 2012.

After the evaluation for election in the grade of the Associate Professor

- 4d.70) Zanis P., P. Hadjinicolaou, S. Dafka, E. Tyrlis, N. Mihalopoulos, A. Pozzer, and J. Lelieveld, The summertime free tropospheric ozone pool over Eastern Mediterranean/Middle East, Geophysical Research Abstracts, Vol. 15, EGU2013-1304, 2013, EGU General Assembly 2013.
- 4d.71) Georgoulas A.K., P. Zanis, U. Pöschl, K.A. Kourtidis, G. Alexandri, C. Ntogras, E. Marinou, and V. Amiridis, QUantifying the Aerosol Direct and Indirect Effect over Eastern Mediterranean from Satellites (QUADIEEMS): Overview and preliminary results, Geophysical Research Abstracts, Vol. 15, EGU2013-1348, 2013, EGU General Assembly 2013.
- 4d.72) Dafka S., E. Xoplaki, E. Garcia-Bustamante, A. Toreti, P. Zanis, and J. Luterbacher, The Etesian wind system and wind energy potential over the Aegean Sea, Geophysical Research Abstracts, Vol. 15, EGU2013-10133, 2013, EGU General Assembly 2013.

- 4d.73) Katragkou E., P. Zanis, I. Tegoulis, I. Kioutsoukis, and D. Melas, Future climate change impacts on summer surface ozone from regional climate air quality simulations over Europe, Geophysical Research Abstracts, Vol. 15, EGU2013-12386, 2013, EGU General Assembly 2013.
- 4d.74) Katragkou E., I. Tegoulis, I. Pytharoulis, P. Zanis, and T. Karacostas, Grid enabled regional climate simulations within the EURO-CORDEX project: ERA-interim hindcast 1990-2009, Geophysical Research Abstracts, Vol. 15, EGU2013-5274, 2013, EGU General Assembly 2013.
- 4d.75) Marougianni G., E. Katragkou, T. Giannaros, A. Poupkou, D. Melas, P. Zanis, and H. Feidas, Evaluation of surface ozone simulated by the WRF/CMAQ online modelling system, Geophysical Research Abstracts, Vol. 15, EGU2013-7102, 2013, EGU General Assembly 2013.
- 4d.76) Feidas H., Zanis P., Melas D., Vaitis M., Anadranistakis E., Symeonidis P. and Pantelopoulos S., The Geographic Climate Information System GEOCLIMA, DARECLIMED workshop, Sharing data and information in the Eastern Mediterranean and the Middle East, 23-25 July 2013, Kolymbari, Chania, Crete, Greece.
- 4d.77) Katragkou E., P. Zanis, M. Cardoso, J. Fernandez, M. Garcia-Diez, A. Gobiet, K. Goergen, D. Jacob, T. Karacostas, S. Mayer, I. Pytharoulis, P. Soares, S. Sobolowski, I. Tegoulis, A. Tsikerdekis, and R. Vautard, Evaluation of a WRF-hindcast ensemble within the EURO-CORDEX project, Geophysical Research Abstracts, Vol. 16, EGU2014-5637, 2014, EGU General Assembly 2014.
- 4d.78) Feidas H., P. Zanis, D. Melas, M. Vaitis, E. Anadranistakis, P. Symeonidis, and S. Pantelopoulos, Geoclimate: A geographic information system for climate services, Geophysical Research Abstracts, Vol. 16, EGU2014-2071, 2014, EGU General Assembly 2014.
- 4d.79) Georgoulis A.K., A. Tsikerdekis, C. Ntogras, and P. Zanis, Assessing the effectiveness of RegCM4 regional climate model in simulating the aerosol optical depth patterns over the region of Eastern Mediterranean, Geophysical Research Abstracts, Vol. 16, EGU2014-10037, 2014, EGU General Assembly 2014.
- 4d.80) Dafka S., E. Xoplaki, A. Toreti, P. Zanis, F. González Rouco, and J. Luterbacher, The Etesian wind system - Classification and Climatology, Geophysical Research Abstracts, Vol. 16, EGU2014-10877, 2014, EGU General Assembly 2014.
- 4d.81) Tsikerdekis A., E. Katragou, P. Zanis, D. Melas, H. Eskes, J. Flemming, V. Huijnen, A. Inness, I. Kapsomenakis, M. Schultz, O. Stein, and C. Zerefos, The Etesian wind system - Classification and Climatology, Geophysical Research Abstracts, Vol. 16, EGU2014-652, 2014, EGU General Assembly 2014.
- 4d.82) Akritidis D., P. Zanis, I. Pytharoulis, and T. Karacostas, Assessment of near-surface ozone trends over Europe in regional climate-air quality simulations: The impact of emissions, Geophysical Research Abstracts, Vol. 16, EGU2014-8323, 2014, EGU General Assembly 2014.
- 4d.83) Georgoulis A.K., K. Kourtidis, P. Zanis, G. Alexandri, and U. Pöschl, Aerosol-cloud relations over Eastern Mediterranean as seen from MODIS satellite observations, Geophysical Research Abstracts, Vol. 16, EGU2014-9838, 2014, EGU General Assembly 2014.
- 4d.84) Alexandri G., A. Tsikerdekis, P. Zanis, E. Katragkou, and A. K. Georgoulis, On the ability of two regional climate models to simulate surface solar radiation patterns over Europe: An assessment using CM SAF satellite data, Geophysical Research Abstracts, Vol. 16, EGU2014-9483, 2014, EGU General Assembly 2014.
- 4d.85) Zanis P., Katragkou E., Ntogras C., Marougianni G., Feidas H., Anadranistakis E., Melas D., A high resolution regional climate model simulation over Greece for the period 1960-

- 2100: Evaluation and future projections, 10th International Congress of the Hellenic Geographical Society, 22–24 October 2014, Thessaloniki.
- 4d.86) Feidas H., Karagiannidis A., Keppas S., Kontos Th., Koukouroufli N., Triantafyllou H., Papakonstantinou A., Vaitis M., Soulakellis N., Zanis P., Melas D., Marougianni G., Anadranistakis E., Climate mapping of Greece, 10th International Congress of the Hellenic Geographical Society, 22–24 October 2014, Thessaloniki.
- 4d.87) Bampzelis D., Pytharoulis I., Tegoulis I., Zanis P., Karacostas T., Rainfall characteristics and drought conditions interconnected to the potentiality and applicability of the “DAPHNE” rain enhancement project in Thessaly, 10th International Congress of the Hellenic Geographical Society, 22–24 October 2014, Thessaloniki.
- 4d.88) Alexandri G., A. K. Georgoulis, P. Zanis, A. Tsikerdekis, E. Katragkou, K. Kourtidis, C. Meleti, On the ability of RegCM4 to simulate surface solar radiation patterns over Europe: An assessment using satellite-based observations, Geophysical Research Abstracts, Vol. 17, EGU2015-10110, 2015, EGU General Assembly 2015.
- 4d.89) Georgoulis A. K., G. Alexandri, K. Kourtidis, P. Zanis, U. Pöschl, J. Lelieveld, R. Levy, Vassilis Amiridis., E. Marinou, A. Tsikerdekis and A. Pozzer, Aerosol Optical Depth spatiotemporal variability and contribution of different aerosol types over Eastern Mediterranean, Geophysical Research Abstracts, Vol. 17, EGU2015-10052, 2015, EGU General Assembly 2015.
- 4d.90) Tsikerdekis A., P. Zanis, V. Amiridis, E. Marinou, A.K. Georgoulis, E. Katragkou, Th. Karacostas, F. Solmon, Evaluation of the dust scheme in the regional climate model RegCM4 using the dust satellite product LIVAS over Europe and North Africa, Symposium on Coupled Chemistry-Meteorology/Climate Modeling: Status and Relevance for Numerical Weather Prediction, Air Quality and Climate Research, WMO headquarters, Geneva, Switzerland, 23-25 February 2015.
- 4d.91) Katragkou E., P. Zanis, A. Tsikerdekis, J. Kapsomenakis, D. Melas, H. Eskes, J. Flemming, V. Huijnen, A. Inness, M.G. Schultz, O. Stein, C. Zerefos, Evaluation of MACCII near surface ozone reanalysis over Europe, Symposium on Coupled Chemistry-Meteorology/Climate Modeling: Status and Relevance for Numerical Weather Prediction, Air Quality and Climate Research, WMO headquarters, Geneva, Switzerland, 23-25 February 2015.
- 4d.92) A. Tsikerdekis, P. Zanis, A. L. Steiner, F. Solmon, V. Amiridis, E. Marinou, E. Katragkou, Th. Karacostas and G. Foret, Dust size parameterization in RegCM4: Impact on aerosol burden and radiative forcing, 2015 AGU Fall Meeting, San Francisco, 14-18 December 2015.
- 4d.93) Alexandri G., Georgoulis A., Meleti C., Balis D., Kourtidis K., Sanchez-Lorenzo A., Trentmann J., Zanis P., Surface solar radiation over the region of Eastern Mediterranean: A high resolution satellite view, Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016.
- 4d.94) Georgoulis A.K., Tsikerdekis A., Amiridis V., Marinou E., Benedetti A., Zanis P., and Kourtidis K., A 3-D evaluation of the MACC reanalysis dust product over the greater European region using CALIOP/CALIPSO satellite observations, Geophysical Research Abstracts, Vol. 18, EGU2016-1903, 2016, EGU General Assembly 2016.
- 4d.95) Alexandri G., Georgoulis A.K., Meleti C, Balis D., Kourtidis K., Sanchez-Lorenzo A., Trentmann J., and Zanis P., Surface solar radiation patterns over the climatically sensitive region of Eastern Mediterranean, Geophysical Research Abstracts, Vol. 18, EGU2016-1903, 2016, EGU General Assembly 2016.
- 4d.96) Dafka S., Xoplaki E., Toreti A., Zanis P., Tyrlis E., and Luterbacher J., Evaluation of the EURO-CORDEX RCMs to accurately simulate the Etesian wind system, Geophysical Research Abstracts, Vol. 18, EGU2016-10009, EGU General Assembly 2016.

4d.97) Katragkou E., D. Akritidis, S. Kontos, P. Zanis, D. Melas, H. Eskes, Consistency between the global and regional modeling components of Copernicus Atmospheric Monitoring Service, 16th EMS Annual Meeting & 11th European Conference on Applied Climatology (ECAC), 12–16 September 2016, Trieste, Italy.

4e. Invitations for oral presentations at international conferences and workshops

- 1) “Abdus Salam International Centre for Theoretical Physics (ICTP)”, Trieste, Italy, 19 July 2005, προσκεκλημένος ομιλητής με θέμα «Comparison of a full year double nested high resolution RegCM3 simulation with observations of Temperature and Precipitation over Greece».
- 2) Workshop in the framework of bilateral collaboration between Academy of Athens and the Romanian Academy of Sciences, Institute of Geography of the Romanian Academy of Sciences, Bucharest, Romania, 16 March, 2006.
- 3) International Symposium - Future Climate, Impacts and Responses, The IPCC Fourth Assessment Report & EC Integrated Climate Research, 19-20 November 2007, European Commission, Brussels, Belgium, 2007, invited speaker with topic «Climate impacts on the stratosphere and stratosphere/troposphere coupling».
- 4) ESF- MedCLIVAR Workshop on “Climate Change Modeling for the Mediterranean region”, International Center for Theoretical Physics, Trieste, Italy, 13 - 15 Oct 2008, invited speaker with topic «Regional air quality decadal simulations over Europe in present and future climate».
- 5) 1st International Latsis Summer School, Environment: Climatology, Climate Change and Impacts, Athens, Greece, 8-15 July, 2009, invited speaker with topic «Climate impacts on tropospheric and stratospheric ozone».
- 6) Postgraduate Studies Program of the Medical School of the University of Athens, Thematic Section "Pathology of Pregnancy", "Attiko" Hospital, 27 May 2010, Athens, invited oral presentation on "Environment, Climate Change and Humans".
- 7) Fifth ICTP Workshop on the Theory and Use of Regional Climate Models, 31 May-11 June 2010, Trieste, Italy, invited speaker with topic «On the direct effect of anthropogenic aerosols in European climate based on regional climate modeling with RegCM3».
- 8) Institute for Atmospheric and Climate Science, Swiss Federal Institute for Technology (ETH), Zurich, Switzerland, 16 March 2011, invited speaker with topic «Study of climate change impacts on tropospheric ozone in regional scale over Europe based on regional climate-air quality simulations».
- 9) International Symposium: Climate Change and Marine Resources in Coastal Zone, Center for Dissemination of Research Results, Aristotle University of Thessaloniki, 9 November 2011, invited speaker with topic «The use of Regional Climate Models for climate change studies at coastal environments».
- 10) 6th ICTP Workshop on the Theory and Use of regional Climate Models, Trieste, Italy, 7-18 May, 2012, invited speaker with topic «Regional climate - air quality simulations over Europe with RegCM/CAMx in past and future climate».
- 11) The Cyprus Institute, Energy, Environment and Water Research Center (EEWRC), 1-3 July 2012, invited speaker with topic «The summer East Med/ Middle East Tropospheric Ozone Pool».
- 12) Institut für Geographie, Justus-Liebig Universität Giessen, Germany, 16 December 2013, invited speaker with topic « Links between summer circulation and Tropospheric ozone at Eastern Mediterranean/Middle East (EMME)».

- 13) Symposium on "Interactions of urban air pollution, weather and climate", 6 July 2015, Beijing, China, invited speaker with topic «On-line chemistry-climate simulations with the regional climate model RegCM4: Evaluation of dust simulations over Europe and North Africa».
- 14) 8th ICTP Workshop on the Theory and Use of regional Climate Models, Trieste, Italy, 23 May -3 June, 2016, invited speaker with topic «Assessing the performance of RegCM4-chem in the simulation of ozone levels: Summer circulation over Mediterranean and stratospheric intrusion events».
- 15) Institut für Geographie, Justus-Liebig Universität Giessen, Germany, 24 July 2016, invited speaker with topic «Assessing dust simulations with the regional climate model RegCM4 over Europe and North Africa».

4f. Oral and poster presentations in conferences, workshops and seminars

- 4f.1) Oekologietag, University of Berne, Berne, Switzerland, 4 February 1997, oral and poster.
- 4f.2) PSI seminar, Labor fuer Radio- und Umweltchemie der Universitaet Bern und des Paul Scherrer Instituts, Villigen, Switzerland, 21 March 1997, oral.
- 4f.3) European Geophysical Society (E.G.S.) XXII General Assembly, Vienna, Austria, 23-24 April 1997, 2 oral presentations and 1 poster.
- 4f.4) U.K. EUROTRAC-2 meeting, Norwich, U.K., 10-11 July 1997, poster.
- 4f.5) EUROTRAC TOR-2 workshop, Gothenburg, Sweden, 4-5 September 1997, oral.
- 4f.6) VOTALP EU project (Vertical Ozone Transport in the Alps), workshop on stratospheric intrusions, Bologna, Italy, 23-24 October 1997, oral.
- 4f.7) PSI seminar, Labor fuer Radio- und Umweltchemie der Universitaet Bern und des Paul Scherrer Instituts, Villigen, Switzerland, 31 October 1997, oral.
- 4f.8) European Geophysical Society (E.G.S.) XXIII General Assembly, Nice, France, 23 April 1998, oral.
- 4f.9) CACGP-IGAC, 1998 Joint International Symposium on Global Atmospheric Chemistry, Seattle, USA, 19-25 August 1998, 2 posters.
- 4f.10) EUROTRAC TOR-2 workshop, Kleine Scheidegg, Switzerland, 4-6 November 1998, oral and poster.
- 4f.11) KLIMET seminar, Physical Geography, University of Bern, Bern, Switzerland, 25 November 1998, oral.
- 4f.12) PSI seminar, Labor fuer Radio- und Umweltchemie der Universitaet Bern und des Paul Scherrer Instituts, Bern, Switzerland, 18 December 1998, oral.
- 4f.13) European Geophysical Society (E.G.S.) XXIII General Assembly, The Hague, The Netherlands, 20 April 1999, oral.
- 4f.14) Oekologietag, University of Berne, Berne, Switzerland, 4 May 1999, oral.
- 4f.15) ACSOE Symposium, Norwich, U.K., 13-17 July 1999, poster.
- 4f.16) Sixth Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Bologna, Italy, 13-17 September 1999, oral.
- 4f.17) PAUR II (EU project), Final Meeting, Thessaloniki, Greece, 18-19 April 2000, oral.
- 4f.18) STREAMER (EU project), Progress Meeting, El Arenosillo, Spain, 4-5 May, 2000, oral.
- 4f.19) Quadrennial Ozone Symposium, Hokkaido University, Sapporo, Japan, 3-8 July, 2000, poster.
- 4f.20) 5^o Panhellenic Scientific Conference in Meteorology, Climatology and Atmospheric Physics, Thessaloniki, 28-30 September 2000, oral.
- 4f.21) STACCATO (EU project), Progress Meeting, Thessaloniki, Greece, 30-31 October 2001, oral.

- 4f.22) STACCATO (EU project), Progress Meeting, Zurich, Switzerland, 7-8 May 2001, oral.
- 4f.23) ETHZ seminar, Stratosphere-toposphere exchange: First results from the EU-project STACCATO, Zurich, Switzerland, 7 May 2001, oral.
- 4f.24) 11th Meeting of the EUROTRAC-2 International Executive Committee, In-situ photochemical control of ozone at Jungfraujoch - an overview on the FREE Tropospheric EXperiments (FREETEX) 1996, 1998 and 2001 - A Swiss-British collaboration, Jungfraujoch, Switzerland, 2 July 2001, oral.
- 4f.25) "A Changing Atmosphere"- 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants, Torino, Italy, 17-20 September 2001, 3 posters.
- 4f.26) TROTREP (EU project), Progress Meeting, Bern, Switzerland, 15-16 January 2002, oral.
- 4f.27) STACCATO (EU project), Final Meeting, Hamburg, Germany, 25-26 February 2002, oral.
- 4f.28) TRADE-OFF (EU project), Progress Meeting, L' Aquila, Italy, 21-22 March 2002, oral.
- 4f.29) European Geophysical Society (E.G.S.) 27th General Assembly, Nice, France, 21-26 April 2002, 2 oral and 6 poster presentations.
- 4f.30) CANDIDOZ (EU project), Kick-off Meeting, Cambridge, UK, 13-14 May 2002, oral.
- 4f.31) NATO Advanced Research Workshop, Air-pollution processes in regional scale, Kalithea, Greece, 13-15 June 2002, oral.
- 4f.32) Swiss-Japanese Seminar, Interlaken, Switzerland, 1-4 July, 2002, oral.
- 4f.33) COST-ACTION on UT/LS region, first Management Committee meeting, Brussels, Belgium, 9-10 September 2002, oral.
- 4f.34) Joint International Symposium on Atmospheric Chemistry within the Earth System, Hersonissos, Crete, Greece, 18-25 September 2002, oral and 2 poster presentations.
- 4f.35) CANDIDOZ (EU project), Workshop on statistical modelling, Zurich, November 25-26, 2002, oral.
- 4f.36) CANDIDOZ (EU project), Progress Meeting, Sodankyla, Finland, 25-26 March 2003, oral.
- 4f.37) CANDIDOZ (EU project), Progress Meeting, Zurich, Switzerland, 18-19 March 2004, oral.
- 4f.38) COST 723 workshop, ESTEC, Noordwijk, The Netherlands, 11-13 March 2004, πόστερ.
- 4f.39) Stratospheric Ozone Workshop, Zurich, Switzerland, 16-17 March 2004, oral.
- 4f.40) CANDIDOZ (EU project), Progress Meeting, Zurich, Switzerland, 18-19 March 2004, oral.
- 4f.41) Workshop of the IGBP-Global Change Committee of the Academy of Athens on "Monitoring of global changes in large latitudes", 30 March 2004, National Institute of Research, 2004, oral.
- 4f.42) Quadrennial Ozone Symposium 1-8 June 2004, Kos, Greece, 2004, 3 posters.
- 4f.43) Second ICTP Workshop on the Theory and Use of Regional Climate Models, 31 May-9 June 2004, Trieste, Italy, 2004, oral.
- 4f.44) 7^o Panhellenic Scientific Conference in Meteorology, Climatology and Atmospheric Physics, Nicosia, Cyprus, 28-30 September 2004, oral.
- 4f.45) CANDIDOZ (EU project), Progress Meeting, Prague, Czech Republic, 8-9 November 2004, oral.
- 4f.46) Workshop on Regional Climate Modelling and Mini-Symposium on Climate Change in Europe, Prague, Czech Republic, 29 November- 3 December 2004, oral.
- 4f.47) Workshop "UV Radiation - Quality of Life", Kryas-Livadia Convention Center, speech on "Ozone Haze and Global Ozone Trends - Ultraviolet Radiation in the Atmosphere", April 9, 2005.
- 4f.48) European Geosciences Union (EGU) General Assembly, Vienna, Austria, 24-29 April 2005, 2 posters.
- 4f.49) 13th General Conference of the European Physical Society, Bern Switzerland, 11-15 July 2005, oral.
- 4f.50) Workshop on Climate Change Impacts in Central and Eastern Europe, Prague, Czech Republic, 10-11 October, 2005, oral.

After evaluated election in the grade of the Assistant Professor

- 4f.51) 8^o Conference in Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 24-26 May 2006, oral.
- 4f.52) CECILIA (EU project), Kick-off meeting, Bucharest, June 12-14, 2006, oral.
- 4f.53) Workshop aiming at the networking of research teams dealing with issues of air quality and climate change, Tuesday 10 October 2006, Amphitheater of A. Tsioumis of the Aristotle University of Thessaloniki, Thessaloniki, oral.
- 4f.54) CECILIA (EU project), 1st Working Meeting, Semmering, January 29-31, 2007, oral.
- 4f.55) Seminar entitled "Introduction to Regional Climate Models: Advantages, Limitations and their Contribution to Climate Studies", Research Centre of Astronomy and Applied Mathematics, Academy of Athens, , Seminar Room of KEAEM, Athens, March 20, 2007.
- 4f.56) CECILIA (EU project), 2nd Working Meeting, Pallini Beach Hotel, Kallithea, Chalkidiki, Greece, 13-15 June 2007, oral.
- 4f.57) Second ACCENT Symposium, Atmospheric Composition Change, Causes and Consequences – Local to Global, Urbino, July 23-27, 2007, poster.
- 4f.58) CECILIA (EU project), 3rd Working Meeting, Budapest, 6-8 February 2008, oral.
- 4f.59) World Day of Meteorology, Meteoroskopeio, 21 March 2008, Thessaloniki, oral presentation on topic "Climate and atmospheric composition - Changes and Interactions".
- 4f.60) 1st Hellenic-Italian Environmental Conference "Mother Earth", Modern Technology at the Environmental Service, 12-13 September 2008, "Nikolaos Germanos" Conference Center, Thessaloniki, presentation on "Operational monitoring with numerical models of air quality in the Balkans".
- 4f.61) CECILIA (EU project), 5th Working Meeting, Dunajska Streda, Slovakia, 25-27 November, 2008, oral.
- 4f.62) CECILIA (EU project), 6th Working Meeting, Kalandra, Chalkidiki, Greece, November, 10-12 June 2009, oral.
- 4f.63) 3^o Panhellenic conference Environment Council AUTH, Climate change – Sustainable Development – Renewable energy sources, 15-17/10/2009, Thessaloniki, 2009, oral.
- 4f.64) International workshop on: Atmospheric Composition Changes: Climate-Chemistry Interactions, Lecce, Italy - November 2-4, 2009, oral.

After the evaluation for permanence in the grade of the Assistant Professor

- 4f.65) 10th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2010), Patra 25-28 May 2010, ομιλία.
- 4f.66) Kick-off meeting, Project GEOCLIMA, Aristotle University of Thessaloniki, Thessaloniki, 5 April 2011, oral.
- 4f.67) 2nd Tropospheric Ozone Workshop, Toulouse, 11-14 April, 2011, oral and poster.
- 4f.68) 1st Progress Meeting, Project GEOCLIMA, Singular Logic, Athens, 19 October 2011, oral.
- 4f.69) Open University of the Municipality of Thessaloniki Thematic Area: Sustainable Development and Environmental Protection, Thessaloniki Center of History, Billi Palace, 13 December 2011, Thessaloniki, presentation on "Air Pollution and Climate Change".
- 4f.70) 2nd Progress Meeting, Project GEOCLIMA, Aristotle University of Thessaloniki, Thessaloniki, 6 April 2012, oral.
- 4f.71) EGU General Assembly 2012, Vienna, Austria, 22-27 April, 2012, 2 posters.
- 4f.72) AUTH on Sundays, Meteoroskopeio, 13 May 2012, Thessaloniki, oral.

- 4f.73) 11th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2012), Athens 29 May-1 June 2012, oral.

After the evaluation for election in the grade of the Associate Professor

- 4f.74) European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013, oral and poster.
- 4f.75) Workshop of GEOCLIMA project, Athens, 31 May 2013, oral.
- 4f.76) European Geosciences Union (EGU) General Assembly, Vienna, Austria, 27 April- 2 May, 2014, 2 posters.
- 4f.77) 2nd South Eastern Europe GEO Workshop on Integrating Earth Observation Data and Services for Monitoring the Environment and protecting the Citizens, Athens, 20-21/10/2014.
- 4f.78) Workshop on Coupled Chemistry-Meteorology/Climate Modelling (CCMM): status and relevance for numerical weather prediction, atmospheric pollution and climate research, Geneva, WMO, 23-25/2/2015, oral.
- 4f.79) Marie Curie International Research Staff Exchange με τίτλο "REQUA" (REgional climate – air QUALity interactions), Nanjing, China, 12/7/2015, oral.
- 4f.80) GEO-CRADLE (Coordinating and integRating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS), kick-off meeting, Athens, 18-19/2/2016.
- 4f.81) GEO-CRADLE (Coordinating and integRating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS), Workshop, Limassol, Cyprus 16-17/10/2016, oral.
- 4f.82) DAAD project, "The Mediterranean Hot-Spot: Challenges and Responses in a Changing Environment", kick-off meeting, Giessen, Germany, 6-10/3/2017, oral.

4g. Pop science articles in press

- 4g.1) Zanis Prodromos, "The good and bad ozone ", newspaper Eleftherotypia, daily newspaper 05/06/2001, pages 22-23. (in Greek)
- 4g.2) Zanis Prodromos, "The black sides of weather", Geotropio, weekly magazine of the newspaper Eleftherotypia, issue 85, 24/11/2001, pages 62-66. (in Greek)

4h. Research projects

- 4h.1) Project "In-situ photochemical control and long-range transport of free tropospheric ozone at Jungfraujoch in the Swiss Alps", Swiss Department of Environmnet (Project No. 204.3/FP3052), 1995-1996.
- 4h.2) Project "In-situ photochemical control and transport of ozone at Jungfraujoeh", Committee for research and technology, KTI, Project No.3418.1, 1997-1999.
- 4h.3) EU-project VOTALP (Vertical Ozone Transport in the Alps), ENV4-CT95-0025, 1996-1998.
- 4h.4) "Tropospheric Ozone Research – TOR-2", Sub-project of EUROTRAC2 (EUROpean experiment on TRANsport and transformation of environmentally relevant trace Constituents in the troposphere over Europe), 1996-1999.

- 4h.5) EU-project PAUR II (Photochemical Activity and solar Ultraviolet Radiation Modulation Factors), ENV4-CT97-0623, 1998-2000.
- 4h.6) EU-project STACCATO (Influence of Stratosphere-Troposphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity), EVK2-CT-1999-00050, 2000-2002.
- 4h.7) EU-project TROTREP (Tropospheric Ozone and Precursors, Trends, Budget, and Policy), EVK2-1999-00286, 2000-2003.
- 4h.8) EU-project CANDIDOZ (Chemical and Dynamical Influences on Decadal Ozone Change), EVK2-2001-00024, 2002-2005.
- 4h.9) COST 723 (Data Exploitation and Modelling for the Upper Troposphere and Lower Stratosphere), 2002-2006.
- 4h.10) Internal Project of the Academy of Athens “Projections of future climate change with dynamical and statistical downscaling for Eastern Mediterranean” 200/587 and 200/626, 2004-2005.
- 4h.11) National project with title “Natural variability of aerosol and ozone levels and their impact on the regional climate of Eastern Mediterranean”, PYTHAGORAS II - Funding of research at the universities, 2005-2007.
- 4h.12) National project with title “Use of dynamical downscaling to study extreme weather events in Greece”, PYTHAGORAS II - Funding of research at the universities, 2005-2007.
- 4h.13) National project with title “Study of the origin and the transport mechanisms of aerosols and ozone at Athens with the use of modern optical methods and laser techniques”, PYTHAGORAS II - Funding of research at the universities, 2005-2007.
- 4h.14) National project with title “Study of extreme weather events in Greece and projections of regional climate change with downscaling methods”, PENED 2003, funding program for supporting young researchers, General Secretariat for Research and Technology (GSRT), 2005-2007.
- 4h.15) EU-project CECILIA (Central and Eastern Europe Climate Change Impact and Vulnerability), Contract no.: 037005, 2006-2009.
- 4h.16) GeoClima, Action Cooperation project, Operational Programmes “Competitiveness And Entrepreneurship” And Regions In Transition, (<http://www.geoclima.eu/>), 2011-2012.
- 4h.17) Project QUADIEEMS (QUantifying the Aerosol Direct and Indirect Effect over Eastern Mediterranean from Satellites), 2012-2014. **Scientific coordinator**
- 4h.18) Project «The Etesian wind system over the Aegean Sea: an assessment of wind resources in the area for present and future climate», IKYDA 2012, IKY, 2012-2013. **Scientific coordinator**
- 4h.19) GeoClima, Action Cooperation project, Operational Programmes “Competitiveness And Entrepreneurship” And Regions In Transition, (<http://www.geoclima.eu/>), 2011-2012. **WP leader**
- 4h.20) XENIOS - Climate change impacts on the touristic development of sensitive areas in the Greek territory. Case study: Messinia – Integrated Tourism Development Areas, Action Cooperation project, Operational Programmes “Competitiveness And Entrepreneurship” And Regions In Transition, 2011-2013.
- 4h.21) EU-Project eEnviPer (A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-Government services and applications), 2012-2014.
- 4h.22) PEGA - Update of graduate knowledge in new scientific and environmental technologies, Operational Program Education and Lifelong Learning, NSRF, 2014.
- 4h.23) National project DAFNI (ΔΑΦΝΗ), Action Cooperation project, Operational Programmes “Competitiveness And Entrepreneurship” And Regions In Transition, General Secretariat for Research and Technology, 2013-2015.

- 4h.24) EU project REQUA (Regional climate-air quality interactions), Marie Curie Actions-International Research Staff Exchange Scheme (IRSES), 2013-2017. **WP leader**
- 4h.25) EU Project H2020 GEO-CRADLE (Coordinating and integrating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS), duration 30 months 2016-2018.
- 4h.26) DAAD-funded cooperation, JLU (Justus-Liebig University Giessen) and AUTH, Title: "The Mediterranean Hot-Spot: Challenges and Responses in a Changing Environment", 2017-2019. **AUTH coordinator.**

5. TEACHING/EDUCATION EXPERIENCE

5.1 Teaching

5.1.1 Teaching after the appointment in the position of the Assistant Professor at the Aristotle University of Thessaloniki (AUTH)

A. Undergraduate courses			
	Course	School	Time
1.	Atmospheric pollution and climate change	Geology, AUTH	2007- today
2.	Introruction in Computing	Geology, AUTH	2007-2012
3.	Meteorological and Climatological Issues	Geology, AUTH	2007-2008
4.	Introduction in Meteorology and Climatology	Mathematics, AUTH	2007-today
5.	General and Dynamical Meteorology	Mathematics, AUTH	2007-2008
6.	Meteorology	Physics, AUTH	2012 - today
B. Graduate courses			
	Course	School	Time
1.	Atmospheric pollution, MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2007- today
2.	Thermodynamics and Static of the the atmosphere MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2007- today
3.	Atmospheric Boundary Layer MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2007- today
4.	Principles of Atmospheric Chemistry MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2007-2015
5.	Environmental Chemistry, MSc «Environmental Physics»	Physics, AUTH	2007- today
6.	The Evolving Climate Change: Climate Models, Modern and Innovative Applications in the Study of Climate Change «PEGA - Updating of graduate knowledge in new scientific and environmental technologies»	Operational Program for Education and Lifelong Learning, NSRF	September-December 2014

5.1.2 Teaching before the appointment in the position of the Assistant Professor

A. Undergraduate courses			
	Course	School	Time
1.	Air Pollution	Department of Management of Rural Environment and Natural Resources, University of Thessaly	2001-2002
2.	Atmospheric Physics	Department of Management of Rural Environment and Natural Resources, University of Thessaly	1999-2001
3.	«Tropospheric and Stratospheric ozone» Seminars with a total duration of 10 teaching hours	Within the framework of the program "Advanced Techniques of Environmental Measurement and Forecasting - PROTEPE" subsidized by GSRT	April –May 2005
4.	Atmospheric Chemistry, Summer School «Tropospheric Ozne» (Seminars)	Department of Physical Geography, University of Bern, Switzerland	July, 2000 July, 2001 July, 2002
5.	Applied Mathematics	D.E.I., Arts Science and Technology, Foundation courses, Thessaloniki	1999-2000
B. Graduate courses			
	Course	School	Time
1.	Atmospheric pollution, MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2005-2007
2.	Principles of Atmospheric Chemistry MSc «Meteorology, Climatology and Atmospheric Environment»	Geology, AUTH	2005-2007
3.	Environmental Chemistry, MSc «Environmental Physics»	Physics, AUTH	2001-2007
4.	Issues in Environmental Research MSc «Environmental Physics»	Physics, AUTH	2001-2003

5.2 Lecture notes

- Zanis P., Notes on Air Pollution and Chemistry, Department of Publications, AUTH, p.116, Thessaloniki, 2008. They are given in the framework of the course "Air Pollution and Climate Changes", Department of Geology, AUTH.

5.3 Doctoral Theses

5.3.1 Supervisor in Doctoral Theses

- **Dimitris Akritidis**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: "Study of the background of air pollution in Greece using numerical models". October 2014.
- **Athanasios Tsikerdekis**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: «Study of dust aerosol - climate interactions using a regional climate model», September 2017.
- **Panagiotis Kollias**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: «Study of Atmospheric Dispersion Processes, Characteristics and Hazard of Particulate Matter in the region of Thessaloniki ». Starting June 2011, ongoing.

5.3.2 Three-member Advisory Committee in Doctoral Theses

- **Giannaros Theodoros**, PhD candidate of the School of Physics, AUTH with topic: «Study of the Urban Heat Island by using a Mesoscale Atmospheric Model and Assimilation methods Experimental Data». April 2013.
- **Marougianni Filio**, PhD candidate of the School of Physics, AUTH with topic: «Interactions of meteorology and air quality ». Starting July 2011, ongoing.
- **Solomou Ermioni**, PhD candidate of the School of Physics, AUTH with topic: «Validation of an air quality numerical model and development of a post-processor filter ». Starting January 2013, ongoing.
- **Kondylia Velikou**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: « Dynamical downscaling of the Regional Climate Model RegCM for the Greek Region: Statistical Analysis, Dynamic Assessment, Impact and Future Scenarios ». Starting February 2013, ongoing.
- **Tegoulis Ioannis**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: « Implementation of an innovative methodology for the evaluation and optimization of the WRF model for the study of convective activity in Thessaly», ongoing.
- **Georgios Karoutsos**, PhD candidate of the Department of Meteorology and Climatology of the School of Geology, AUTH with topic: «Study and use of numerical weather forecast and application in weather modification ». Starting December 2013, ongoing.
- **Giannaros Christos**, PhD candidate of the School of Physics, AUTH with topic «Sensitivity analysis and improvement of a system of atmospheric models ». Starting October 2014, ongoing.
- **Alexandros Pantazis**, PhD candidate of the School of Applied Mathematics and Physics, National Technical University of Athens, with topic: «Developing a smart 3-dimensional laser scanning system for measuring atmospheric meteorological parameters with laser remote sensing systems (3D lidar technique) with application to flight safety at airports». Starting November 2015, ongoing.

- **Rizos Konstantinos**, PhD candidate of the School of Physics, AUTH with topic: «Study of atmospheric background pollution using experimental data and numerical models». Starting January 2016, ongoing.
- **Logothetis Ioannis**, PhD candidate of the School of Physics, AUTH with topic: « Large-Scale Dynamical Effects on the Summer Atmospheric Circulation of the Aegean Sea». Starting January 2016, ongoing.

5.3.3 Member of Examination Committee in Doctoral Theses

a. In Greece

- **Kostas Douvis**, School of Geology and Geoenvironment, National and Kapodistrian University of Athens, Ph.D. thesis "Study of the extreme climatic phenomena in Greece with methods of dynamical downscaling ", June 2009.
- **Ioannis Kapsomenakis**, School of Geology and Geoenvironment, National and Kapodistrian University of Athens, Ph.D. thesis, "Assessment of Climate Change projected from Numerical Models in Greece with downscaling Methods", June 2009.
- **Iraklis Lissaridis**, School of Physics, Aristotle University of Thessaloniki, Ph.D. thesis "Study of the Atmospheric Environment using mesoscale Numerical Models", June 2009.
- **Konstantinos Markakis**, School of Physics, Aristotle University of Thessaloniki, Ph.D. thesis "Contribution to the Study of Particulate Pollution in Greece", March 2010.
- **Nikolaos Mazarakis**, School of Physics, University of Patras, Ph.D. thesis "Observational and numerical study of the dynamic and natural processes associated with the summer storm activity in Greece", June 2010.
- **Evangelos-Dorotheos Aggelis**, School of Geology and Geoenvironment, National and Kapodistrian University of Athens, Ph.D. thesis "Contribution to the study of tropospheric ozone changes in Europe », April 2011.
- **Aristeidis Georgoulas**, School of Environmental Engineering, Democritus University of Thrace, Ph.D. thesis "Spatial and temporal analysis of satellite data of methane, particulate matter and cloudiness with emphasis on the study of weekly fluctuations", May 2011.
- **Stavroula Stolaki**, School of Geology, Aristotle University of Thessaloniki, PhD thesis "Study of the characteristics of the phenomenon of fog at Macedonia airport and its potential to cope with it", October 2011.
- **Dimitrios Bampzelis**, School of Geology, Aristotle University of Thessaloniki, Ph.D. thesis "Investigation of the conditions for the implementation of rainfall programs: Application in the wider region of Thessaly", June 2013.
- **Melina Maria Zempila**, School of Physics, Aristotle University of Thessaloniki, PhD thesis "Climatological study of ultraviolet solar radiation in the eastern Mediterranean region", June 2013.
- **Eftixia Rousi**, School of Geology, Aristotle University of Thessaloniki, Ph.D. thesis "Estimates of Future Climate Change in the Mediterranean with the Use of Regional Climate Models", November, 2014.
- **Konstantinos Fragkos**, School of Physics, Aristotle University of Thessaloniki, PhD thesis "Study of atmospheric ozone by spectrophotometric remote sensing methods", February 2015.
- **Georgia Alexandri**, School of Physics, Aristotle University of Thessaloniki, PhD thesis «Study of surface solar radiation with the use of satellite and ground-based observations and climate model simulations», December 2015.
- **Natalia Liora**, School of Physics, Aristotle University of Thessaloniki, PhD thesis "Study of the contribution of man-made and natural emissions to air pollution levels", December 2015.

b. Abroad

- **Lisa Whalley**, External examiner, Department of Chemistry, Leeds University, UK, PhD thesis "Measurements of hydrocarbons and peroxyacetyl nitrate in the troposphere and lower stratosphere", 20 December 2004.
- **Pandey Shubha**, External examiner, Institut für Atmosphäre und Klima, ETH Zurich, Switzerland, PhD thesis "Peroxyacetyl nitrate (PAN) and NO_y at the interface of free troposphere and planetary boundary layer at Jungfrauoch", 15 March 2011.
- **Erika Brattich**, External evaluator, Dipartimento di Scienze Biologiche, Geologiche e Ambientali - Sezione di Geologia, University of Bologna, Italy, PhD thesis "Origin and variability of PM₁₀ and Atmospheric radiotracers at the WMO-GAW station of Mt. Cimone (1998-2011) and in the central Po Valley", 14 April 2014.
- **Georgios Zittis**, External examiner, The Cyprus Institute, Cyprus, PhD thesis "Regional climate modelling in the eastern Mediterranean and Middle East: Aspects of summer warming and related feedbacks under a changing climate", 23 April 2014.
- **Stella Dafka**, External examiner, Institut für Geographie, Justus-Liebig Universität Giessen, Germany, PhD thesis "The Etesian wind system: dynamics, variability and extremes, insights from observations, reanalysis and regional climate models", 24 June 2016.

5.4 MSc Theses

5.4.1 Supervisor in MSc Theses

- **Sikotidou Triantafillia**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of the photochemical equilibrium of ozone in the free troposphere», 2002.
- **Sofia Tzampira**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Correlations of CO, O₃, NO_y», 2003.
- **Menelaos Katsikas**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of the intrusion of stratospheric air into the troposphere with the use of the radioactive isotopes ⁷Be and ¹⁰Be», 2004.
- **Varvara Sarigiannidou**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Contribution to the study of the recovery of the total ozone column for the period 1979-2009», 2011.
- **Stefanos Mystakidis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Evaluation and optimisation of a regional climate model», 2011.
- **Evangelos Tremoulis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of photochemical pollution in the city of Thessaloniki», 2012.
- **Stella Dafka**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Influence of etesian winds on tropospheric ozone in Eastern Mediterranean», 2012.
- **Elpida Leventidou**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of the atmospheric boundary layer height over Greece with the use of satellite data», 2012.
- **Athanasios Tsikerdekis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Variability of near surface ozone in the region of Eastern Mediterranean», 2013.

- **Charikleia Sideropoulou**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of Saharian dust transport over Greece», 2013.
- **Apostolos Arambatzis**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of a stratospheric intrusion event with the use of the regional chemistry-climate coupled model RegCM4», 2015.
- **Georgia Michailoudi**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «An analysis of identification of stratospheric intrusions and their influence on ozone distribution over Eastern Mediterranean using MACC reanalysis», 2016.
- **Elena Gerolymatou**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Contribution to the study of statistical forecast of the air quality in the region of Thessaloniki», 2017.
- **Aliki Patrougka**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of atmospheric pollution at Thessaloniki from biomass burning in fireplaces», 2017.
- **Christos Ntogras**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the direct effect of aerosols on the regional climate using the regional climate model RegCM3», ongoing.
- **Meropi Michailoglou**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the 2010 heatwave in Eastern Europe and the impacts on the air quality », ongoing.
- **Sotiria Papacharalambous**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the Saharian dust transport with a regional climate model », ongoing.
- **Charikleia Tsoutsourou**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of the ozone photochemical steady state in the urban environment of Thessaloniki», ongoing.
- **Anastasia Paschalia**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of the impact of the Asia monsoon outflow to the upper troposphere over the eastern Mediterranean», ongoing.
- **Maria Tsolaki**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: « Evaluation of aerosol optical depth simulated by RegCM4 during summer 2013», ongoing.

5.4.2 Member of Examination Committee in MSc Theses

- **Dimitris Akritidis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Synoptic and dynamical characteristics of the upper troposphere structure during stratospheric ozone intrusion event », 2008.
- **Paraskeui Roupa**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Characteristics of electrical discharges in Greece and their relation to precipitation», 2009.
- **Ioannis Tsampiras**, MSc in Applied engineering and system simulation, Department of Civil Engineering, University of Thessaly, thesis title: "Development of Hybrid Methodologies of Scale Reduction for the Assessment of the Effects of Climate Change on Drought - Application in Thessaly", 2009.

- **George Zittis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Links between atmospheric circulation indices and precipitation in the wider region of Cyprus», 2010.
- **Evangelia Lisitsa**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Dynamic, synoptic and thermodynamic characteristics of the meteorological bomb phenomenon on 21-22 January 2004», 2010.
- **Marina Chostelidou**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the urban heat island in the city of Thessaloniki», 2012.
- **Polixeni Kollia**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the particulate matter pollution in the region of Thessaloniki», 2012.
- **Kondylia Velikou**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Contribution to the study of frost in the Greek region: Future assessments using the regional models of ENSEMBLES», 2012.
- **Georgios Karoutsos**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Application of a KALMAN filter to temperature forecasts of three weather forecast models», 2013.
- **Leonidas Tsopouridis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Numerical study of an intense event of Vardar», 2014.
- **Eleni Semertzidou**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Contribution of organic particles to particulate pollution in the area of Greece based on a photochemical model», 2014.
- **Ioannis Logothetis**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Etesian winds in the 21st Century in the Aegean Sea according to Simulations of the Earth System Models (ESM) of the 5th phase of the CMIP5 program», 2014.
- **Kiriaki Psistaki**, Environmental Engineering and Science, Department of Environmental Engineering, Democritus University of Thrace, thesis title: "Study of PM2.5 mass concentration in indoor sports", 2014.
- **Maria Stefanidou**, Environmental Engineering and Science, Department of Environmental Engineering, Democritus University of Thrace, thesis title: "Seasonal variation of microclimatic conditions in indoor sports. Measurements of temperature, relative humidity, luminous flux", 2014.
- **Marianthi Kourti**, Environmental Engineering and Science, Department of Environmental Engineering, Democritus University of Thrace, thesis title: " Μελέτη του αερισμού σε εσωτερικούς χώρους άθλησης", 2014.
- **Ioannis Giannoulakis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «A synoptical and dynamical study of the snowfall phenomenon in Thessaloniki», 2014.
- **Efmorfia Vaskou**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Solar radiation in the region of Europe based on the results of the climate models participating in the CMIP5 program», 2015.
- **Konstantinos Rizos**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Evaluation of the measurements of the differential absorption system SANOA», 2015.

- **Alkiviadis Paraskevopoulos**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Dynamic atmospheric phenomena and climate trends in Europe», 2015.
- **Fani Gkertzi**, MSc Environmental Physics, School of Physics, Aristotle University of Thessaloniki, thesis title: «Calculation of the ozone column by the DOAS method and measurements with the Phaethon system», 2015.
- **Vasileios Pavlidis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Assessment of simulations by climate models for the region of Europe for the period 1990-2008», 2015.
- **Vagia Dagkli**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the fog phenomenon at the airport of Macedonia», 2017.
- **Ioannis Sofiadis**, MSc in Meteorology, Climatology and Atmospheric Environment, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of climate change over Europe for the 21st century using regional climate simulation forced by scenario RCP8.5», 2017.

5.5 Undergraduate Theses

- **Athanasios Tsikerdekis**, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the impact of Etesian winds on tropospheric ozone », 2010.
- **Roza Zaminian**, School of Geology, Aristotle University of Thessaloniki, thesis title: «Variability of NO and NO₂ gas concentrations in Europe», 2013.
- **Aikaterini Drahali**, School of Physics, Aristotle University of Thessaloniki, thesis title: «Evaluation of a regional climate model and assessment of future climate change at Thessaly», 2015.
- **Ioanna Navrozidou**, School of Physics, Aristotle University of Thessaloniki, thesis title: «Study of an extreme precipitation event at Thessaloniki», 2016.
- **Antonis Roditis**, School of Physics, Aristotle University of Thessaloniki, thesis title: «Synoptic meteorological study of the heat wave event in June 2017 at Thessaloniki », ongoing.
- **Athanasios Girgolas**, School of Physics, Aristotle University of Thessaloniki, thesis title: «Climatological study of the extreme temperatures in November 2015 at Europe », ongoing.
- **Georgios Dekoutsidis**, School of Physics, Aristotle University of Thessaloniki, thesis title: «Analysis of wind data at the airport "Makedonia"», ongoing.
- **Alkiviadis Kalisoras**, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of atmospheric pollution variability at Thessaloniki», ongoing.
- **Anastasia Vorria**, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of the climate change impact on season shifts using regional climate model simulations for the region of Thessaloniki », ongoing.
- **Pavlos Dimitrakakis**, School of Geology, Aristotle University of Thessaloniki, thesis title: «Study of particulate pollution at Thessaloniki», ongoing.

6. RECOGNITION OF THE SCIENTIFIC WORK

6.1 Citations of other researchers on the publications in peer-reviewed journals

Based on Scopus Science Citation Index and Web of Science.

A/A	Article	Journal	Citations SCOPUS	Citations Web of Science
4a1	Zanis et al., 1999a	AE	18	18
4a2	Zanis et al., 1999b	Tellus	46	46
4a3	Zanis et al., 1999c	JGR	24	26
4a4	Zanis et al., 2000a	JAC	29	29
4a5	Carpenter et al., 2000	JGR	44	43
4a6	Zanis et al., 2000b	JGR	28	31
4a7	Bronnimann et al., 2000	AE	36	34
4a8	Schuepbach et al., 2001	JGR	23	24
4a9	Zanis et al., 2001a	AE	18	15
4a10	Zerefos et al., 2001	ASR	30	27
4a11	Gerasopoulos et al., 2001	AE	68	63
4a12	Zanis et al. (2002)	JGR	12	10
4a13	Zerefos et al., 2002,	JGR	65	65
4a14	Solomon et al., 2003	PPS	18	15
4a15	Zanis et al., 2003a	JGR	12	45
4a16	Galani et al., 2003	JGR	27	25
4a17	Cristofanelli et al., 2003	JGR	43	40
4a18	Stohl et al., 2003	JGR	198	224
4a19	Gerasopoulos et al., 2003	AE	44	44
4a20	Zanis et al., 2003b	GRL	15	20
4a21	Zanis et al., 2003c	ACP	39	37
4a22	Balis et al., 2003	AE	118	108
4a23	Zerefos et al., 2003	ACP	58	45
4a24	Priller et al., 2005	NIM	13	13
4a25	Isaksen et al., 2005	JGR	52	52
4a26	Papayannis et al., 2005	AG	7	7
4a27	Gerasopoulos et al., 2006	AE	25	26
4a28	Zanis et al., 2006	JGR	26	23
4a29	Zanis et al., 2007a	ACP	33	31
4a30	Eelftheratos et al., 2007	ACP	13	10
4a31	Zerefos et al., 2007	TAO	5	5
4a32	Repapis et al., 2007	Gnest		10
4a33	Zanis et al., 2007b	ACP	23	15
4a34	Gerasopoulos et al., 2008	ACP	40	30

4a35	Kioutsioukis et al., 2008	IOC	10	10
4a36	Harris et al., 2008	AG	75	78
4a37	Krueger et al., 2008	IDOJARAS		20
4a38	Zanis et al., 2009a	TAC	28	26
4a39	Founda et al., 2009	TAC	5	5
4a40	Zanis et al., 2009b	IOC	34	32
4a41	Amiridis et al., 2009	ACP	57	56
4a42	Zanis, 2009	AG	17	16
4a43	Akritidis et al., 2010	MAP	15	16
4a44	Katragkou et al., 2010	ACP	27	26
4a45	Amiridis et al., 2010	ACP	29	26
4a46	Poupkou et al., 2011	TAC	22	27
4a47	Zanis et al., 2011	AE	19	18
4a48	Katragkou et al., 2011	JGR	41	39
4a49	Huszar et al., 2011	CR	23	21
4a50	Zanis et al., 2012	CR	20	20
4a51	Juda Rezler et al., 2012	CR	23	22
4a52	Tolika et al., 2012	Gnest	11	11
4a53	Aggelis et al., 2013	WASP	2	1
4a54	Leventidou et al., 2013	AE	12	13
4a55	Tourpali and Zanis, 2013	CR	3	2
4a56	Akritidis et al., 2013	AR	12	11
4a57	Anagnostopoulou et al., 2013	CD	16	18
4a58	Zanis et al., 2014	ACP	33	37
4a59	Feidas et al., 2014	TAC	9	8
4a60	Zerefos et al., 2014	ACP	6	6
4a61	Poupkou et al., 2014	AR	9	7
4a62	Akritidis et al., 2014	AE	3	2
4a63	Katragkou et al., 2015a	GMD	30	31
4a64	Katragkou et al., 2015b	GMD	9	11
4a65	Zanis et al., 2015	CR	1	1
4a66	Solomos et al., 2015	AE	3	3
4a67	Alexandri et al., 2015	ACP	11	12
4a68	Dafka et al., 2015	CD	1	4
4a69	Fragkos et al., 2016	TAC	4	2
4a70	Fountoulakis et al., 2016a	JAD	1	1
4a71	Fountoulakis et al., 2016b	AGP	4	3
4a72	Georgoulis et al., 2016a	AE	6	6
4a73	Georgoulis et al., 2016b	ACP	6	4
4a74	Akritidis et al., 2016	ACP	4	4

4a75	Tsikerdekis et al., 2017	ACP	1	1
4a76	Alexandri et al., 2017	AR	3	2
4a77	Marinou et al., 2017	ACP	1	0
4a78	Xi et al., 2017	STOTEN	0	0
4a79	Solomou et al., 2017	AR	0	
4a80	Dafka et al., 2017	CD		
	Total		1896	1915

SCOPUS			
	Total	Exclude self citations of selected author	Exclude self citations of all authors
Citations	1897	1712	1329
H-Factor	27	24	20
Web of Science			
	Total	Without self-citations	
Citations	1915	1702	
H-Factor	26		

6.2 Reviews of articles in scientific journals

A/A	Reviewer in the following scientific journals (with alphabetical order)	Number of articles reviewed per scientific journal
1	Advances in Space Research (ASR)	1
2	Annales Geophysicae (AnnGeo)	1
3	Antarctic Science (AS)	1
4	Applied Radiation and Isotopes (ARI)	2
5	Atmospheric Chemistry and Physics (ACP)	27
6	Atmospheric Environment (AE)	14
7	Atmospheric Pollution Research (APR)	1

8	Atmospheric Science Letters (ASL)	3
9	Climate Dynamics (CD)	4
10	Climate Research (CR)	4
11	Fresenius Environmental Bulletin (FEB)	2
12	Frontiers in Earth Sciences	1
13	Geophysical Research Letters (GRL)	1
14	Geoscientific Model Development (GMD)	2
15	Global NEST Journal (GNEST)	1
16	International Journal of Climatology (JOC)	3
17	ISRN Meteorology (ISRNM)	4
18	Journal of Aerospace Engineering (JAE)	1
19	Journal of Atmospheric Chemistry (JAC)	1
20	Journal of Atmospheric and Solar-Terrestrial Physics (ATP)	3
21	Journal of Environmental Pollution (JEP)	1
22	Journal of Geophysical Research – Atmospheres (JGR)	12
23	Journal of Hydrometeorology (JHM)	1
24	Meteorology and Atmospheric Physics (MAP)	2
25	Natural Hazards and Earth System Sciences (NHESS)	2
26	Regional Environmental Change (REEC)	1
27	Science of the Total Environment (STOTEN)	1
28	Tellus	2
29	Quarterly Journal of the Royal Meteorological Society (QJRMS)	1
Total		100

6.3 Evaluations

- Evaluator for 13 project proposals to the European Union under Action 1.1.5.3., 9-13 July 2007.
- Evaluator of the first year progress of the European Union project CIRCE “Climate Change and Impact Research: the Mediterranean Environment” in the frame of action 1.1.6.3 GOCE, June-July 2008.
- Evaluator of the second year progress of the European Union project CIRCE “Climate Change and Impact Research: the Mediterranean Environment” in the frame of action 1.1.6.3 GOCE, July-August 2009.
- Evaluator / Examiner of the State Scholarship Foundation in the subject of Meteorology for the years 2009 and 2010.
- Evaluator of the State Scholarship Foundation within the framework of the "IKY Scholarship Program" With an individualized assessment procedure - a horizontal act "for the academic year 2012-2013.

- Evaluator for 9 proposals for "Odysseus Contest" (http://www.odysseus-contest.eu/?page_id=57) for students (14-18 year old) for Europe co-funded by European Union, February 2013.
- Evaluator for 19 project proposals at Poland for the "National Science Centre (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>)", March 2012 - April 2017.
- Coordinator of the Intergovernmental Panel on Climate Change (IPCC) Working Group II (Impact, Adaptation and Vulnerability) Commentary by the Greek Ministry of Environment, Energy and Climate Change (IPCC), 2013.
- External reviewer of the report "UNEP EEAP Report on Environmental Effects of Ozone Depletion and Interactions with Climate Change - 2014".
- Evaluator of project proposals at Cyprus in the frame of "LinkSCEEM & Cy-Tera Joint Call for Proposals for HPC access", 2014.
- Member of Experts Panel evaluating 14 project proposals within the scheme "POLONEZ" for the "National Science Centre (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>)" at Poland, February - May 2015.
- Evaluation of Research Proposals EDBM34 "Support for Researchers with Emphasis on Young Researchers", Ministry of Education, Research and Religious Affairs, Greece, April 2017.

6.4 Member of Organizing Committees

- Member of the Organizing Committee of the "Quadrennial Ozone Symposium, Kos, Greece, 2004".
- Member of the Organizing Committee of the 9^o Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2008, Thessaloniki, Greece, 28-31 May 2008.
- Member of the Management Board of the COST action "COST 723 (Data Exploitation and Modelling for the Upper Troposphere and Lower Stratosphere)", 2002-2006.
- Member of the Management Board of the "Environmental Physics Division" of "European Physical Society", 2006-2012.
- Member of the Organizing Committee of the 3^o Panhellenic Environmental Council Conference, AUTH, Thessaloniki, 15-17/10/2009.
- Member of the editorial board of the international scientific journal ISRN Meteorology (ISRN), 2011-2012 (<http://www.isrn.com/journals/meteorology/editors/>).
- Member of the editorial board of the international scientific journal International Journal of Atmospheric Sciences (IJAS), 2012-today (<http://www.hindawi.com/journals/ijas/editors/>).
- Coordinator of the contest «Outstanding Student Poster» of «European Geophysical Union-EGU» for the «Atmospheric Sciences Division», 2012-today (<http://www.egu.eu/inside-egu/divisions-and-present-officers/division-atmospheric-sciences/inside-as/administration.html>).
- Member of the Scientific Committee of the 12^o Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Irakleio, Greece, 28-31 May 2014.
- Member of the Organizing and Scientific Committees of the 13^o Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19-21 September 2016.
- Member of the Scientific Committee of "MedCLIVAR 2016 conference ", Athens, Greece, 26-30 September 2016.

7. Other information

7.1 Administrative work at the School of Geology

- Director of the Postgraduate Programme (MSc) in "Meteorology Climatology and Atmospheric Environment", School of Geology, Aristotle University of Thessaloniki (Election September 2016).
- Representative of the School of Geology at the Senate of the Aristotle University of Thessaloniki (2007-2008).
- Member in the following Committees of the School of Geology over the period 2007-2017:
 - Educational-Research Strategy and Planning
 - Study Programme
 - Continuous evaluation and statistical recording of the Educational Work
 - Library
 - Computer lab, PC Network, Webpage
 - Postgraduate Programmes

7.2 Member of Scientific Unions

- Member of the "Hellenic Meteorological Society".
- Member of the "Hellenic Physical Society".
- Member of the "European Geophysical Union (EGU)".
- Member of the "European Physical Society (EPS)".
- Member of the network RegCNET of the regional climate model RegCM.

7.3 Knowledge in new technologies (measurements and numerical models)

- Measurements of free radicals (HO_2+RO_2)
- Measurements of the photolytic constants $j(\text{NO}_2)$ and $j(\text{O}^1\text{d})$.
- Measurements of the vertical distribution of ozone and meteorological parameters with ozonesondes and radiosondes.
- Measurements of O_3 and NO_x with conventional analysers.
- The Harwell Radiative Transfer Model.
- 0-D Atmospheric Chemical Box Models.
- The regional climate model RegCM.
- The air quality model CAMx.
- The atmospheric dispersion model FLEXPART.

7.4 Knowledge in Programming languages and computing platforms

- R-project, S-plus, GRADS, Facsimile, Fortran, Basic
- Windows, Linux, Unix