

CURRICULUM VITAE

Vassilis Amiridis

A. PERSONAL INFORMATION:

Date and place of Birth: 4th of December, 1971, Goteborg, Sweden
Gender: Male
Marital status: Single
Citizenship: Hellenic

B. CONTACT INFORMATION:

Work address: National Observatory of Athens, Institute for Space Applications and Remote Sensing, Vas. Pavlou & I. Metaxa St., 15236 Penteli, Athens, Greece
Home address: Afroditi 6, 16343, Athens, Greece
Tel.: +30-210-8109116 (*office*), +30-6936-153326 (*mobile*)
Fax: +30 210 6138343
Email: vamoir@noa.gr
Web: www.space.noa.gr/~vamoir

C. EDUCATION:

1993-1998: Diploma in Physics, Aristotle University of Thessaloniki, Greece
1998-2000: M.Sc. in Environmental Physics, Aristotle University of Thessaloniki, Greece
2000-2006: PhD in Atmospheric Physics, Aristotle University of Thessaloniki

D. CURRENT PROFESSIONAL POSITION:

2006-today: Associate Researcher, Institute for Space Applications and Remote Sensing, National Observatory of Athens

E. LANGUAGE KNOWLEDGE:

Greek (native)
English (fluent)

F. PARTICIPATION IN FUNDED RESEARCH PROGRAMS:

1. *“Photochemical Activity in the Ultraviolet Spectral Region-PAUR-IF”*, European Commission, 1998 - 2000
2. *“Small Scale structure Early Warning & Monitoring in Atmospheric Ozone & Related Exposure to UV-B radiation (STREAMER)”*, European Commission, 1998 - 2001
3. *“Liquid hydrogen fuelled aircraft - system analysis (CRYOPLANE)”*, European Commission, 2000-2002
4. *“European aerosol research lidar network to establish an aerosol climatology (EARLINET)”*, European Commission, 2000-2003
5. *“GOME assimilated and validated ozone and nitrogen dioxide fields for scientific users and for model validations”*, European Commission, 2001-2003
6. *“PHOENICS - Particles of human origin extinguishing natural solar radiation in climate systems”*, European Commission, 2002 - 2004
7. *“Quantitative Understanding of Ozone losses by Bipolar Investigations”*, European Commission, 2002-2004
8. *“Quality Assurance of Spectral Ultraviolet Measurements in Europe through the development of a transportable unit (QASUME)”*, European Commission, 2001-2005
9. *“On the extended development and implementation of certain activities of a EUMETSAT Satellite application facility on ozone monitoring”*, EUMETSAT, 2003-2006
10. *“PYTHAGORAS I: Environmental effects of the trans-boundary aerosol pollution”*, European Commission and National Resources, 2004-2006
11. *“Global and regional Earth-system (Atmosphere) Monitoring using Satellite and in-situ data (GEMS)”*, European Commission, 2005-2009
12. *“Air quality Monitoring and Forecasting In China (AMFIC)”*, European Commission, 2006-2009
13. *“European Aerosol Research Lidar Network - Advanced Sustainable Observation System (EARLINET-ASOS)”*, European Commission, 2006-2011
14. *“ESA-CALIPSO: EARLINET’s space borne-lidar-related activity during the CALIPSO mission”*, European Space Agency, 2007-2009
15. *“Urban Heat Islands and Urban Thermography”*, European Space Agency, 2008-2011
16. *“THERMOPOLIS 2009 Campaign”*, European Space Agency, 2009-2010
17. *“Aerosol and Cloud Influence on global surface UV irradiance retrieved from satellite sensors”*, FP7/EU-People-Marie Curie European Return Grant, 2010-2012
18. *“ACTRIS - Aerosol, Clouds, and Trace gases Research Infrastructure Network”*, FP7-INFRASTRUCTURES-2010-1, 2011-2016

G. PUBLICATIONS

a. In peer reviewed journals

1. Formenti, P., M. O. Andreae, T. W. Andreae, E. Galani, A. Vasaras, C. Zerefos, V. Amiridis, L. Orlovsky, A. Karnieli, M. Wendisch, H. Wex, B. N. Holben, W. Maenhaut, and J. Lelieveld, Aerosol optical properties and large-scale transport of air masses: Observations at a coastal and a semiarid site in the eastern Mediterranean during summer 1998, *Journal of Geophysical Research*, 106(D9), 9807-9826, doi:10.1029/2000JD900609, 2001.
2. Balis, D., V. Amiridis, C. Zerefos, E. Gerasopoulos, M. O. 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, 32, 4529-4538, 2003.
3. Gerasopoulos, E., M. O. Andreae, C. S. Zerefos, T. W. Andreae, D. Balis, P. Formenti, P. Merlet, V. Amiridis, and C. Papastefanou, Climatological aspects of aerosol optical properties in Northern Greece, *Atmospheric Chemistry and Physics*, 3, 2025-2041, 2003.
4. Böckmann, C., U. Wandinger, A. Ansmann, J. Bösenberg, V. Amiridis, A. Boselli, A. Delaval, F. De Tomasi, M. Frioud, I. V. Grigorov, A. Hagard, M. Horvat, M. Iarlori, L. Komguem, S. Kreipl, G. Larchevêque, V. Matthias, A. Papayannis, G. Pappalardo, F. Rocadenbosch, J. A. Rodrigues, J. Schneider, V. Shcherbakov, and M. Wiegner, Aerosol lidar intercomparison in the framework of the EARLINET project. 2. Aerosol backscatter algorithms, *Applied Optics*, 43, 977-989, 2004.
5. Balis D. S., V. Amiridis, C. Zerefos, A. Kazantzidis, S. Kazadzis, A. F. Bais, C. Meleti, A. Papayannis, V. Matthias, and H. Dier, Study of the effect of different type of aerosols on UV-B radiation from measurements during EARLINET, *Atmospheric Chemistry and Physics*, 4, 307-321, 2004.
6. Balis D., V. Amiridis, S. Nickovic, A. Papayannis, and C. Zerefos, Optical properties of Saharan dust layers as detected by a Raman lidar at Thessaloniki, Greece, *Geophysical Research Letters*, 31, L13104, doi:10.1029/2004GL019881, 2004.
7. Pappalardo, G., A. Amodeo, M. Pandolfi, U. Wandinger, A. Ansmann, J. Bösenberg, V. Matthias, V. Amiridis, F. De Tomasi, M. Frioud, M. Iarlori, L. Komguem, A. Papayannis, F. Rocadenbosch, and X. Wang, Aerosol Lidar Intercomparison in the framework of EARLINET: Part III - Raman lidar algorithm for aerosol extinction, backscatter and lidar ratio, *Applied Optics*, 43, 5370-5385, 2004.
8. Papayannis A., D. Balis, V. Amiridis, G. Chourdakis, G. Tsaknakis, C. Zerefos, A. Castanho, S. Nickovic, S. Kazadzis, and J. Grabowski, Measurements of Saharan dust aerosols over the Eastern Mediterranean using elastic backscatter-

- Raman lidar, spectrophotometric and satellite observations in the frame of the EARLINET project, *Atmospheric Chemistry and Physics*, 5, 2065-2079, 2005.
9. Papayannis, A., D. Balis, P. Zanis, E. Galani, H. Wernli, C. Zerefos, A. Stohl, S. Eckhardt, and V. Amiridis, Sampling of an SST event over the Eastern Mediterranean region by lidar and electrochemical sonde, *Annales Geophysicae*, 23, 2039-2050, 2005.
 10. Amiridis, V., D. S. Balis, S. Kazadzis, A. Bais, E. Giannakaki, A. Papayannis, and C. Zerefos, Four-year aerosol observations with a Raman lidar at Thessaloniki, Greece, in the framework of European Aerosol Research Lidar Network (EARLINET), *Journal of Geophysical Research*, 110, D21203, doi:10.1029/2005JD006190, 2005.
 11. Balis, D., V. Amiridis, S. Kazadzis, A. Papayannis, G. Tsaknakis, S. Tzortzakis, M. Kalivitis, M. Vrekoussis, M. Kanakidou, N. Mihalopoulos, G. Chourdakis, S. Nickovic, C. Perez, J. Baldasano, and M. Drakakis, Optical characteristics of desert dust over the East Mediterranean during summer: a case study, *Annales Geophysicae*, 24, 807-821, 2006.
 12. Koukouli, M.E., D.S. Balis, V. Amiridis, S. Kazadzis, A. Bais, S. Nickovic, O. Torres, Aerosol Variability over Thessaloniki Using Ground Based Remote Sensing Observations and the TOMS Aerosol Index, *Atmospheric Environment*, 40, 28, 5367-5378, 2006.
 13. Papayannis, A., H. Q. Zhang, V. Amiridis, H. B. Ju, G. Chourdakis, G. Georgoussis, C. Pérez, H. B. Chen, P. Goloub, R. E. Mamouri, S. Kazadzis, D. Paronis, G. Tsaknakis and J. M. Baldasano, Extra-ordinary dust event over Beijing, China, during April 2006: Lidar, Sun photometric, satellite observations and model validation, *Geophysical Research Letters*, 34, L07806, doi: 10.1029/2006GL029125, 2007.
 14. Balis, D., J-C. Lambert, M. van Roozendael, R. Spurr, D. Loyola, Y. Livschitz, P. Valks, V. Amiridis, P. Gerald, J. Granville, and C. Zehner, Ten years of GOME/ERS2 total ozone data: the new GOME Data Processor Version 4: Paper 2: Product Ground-based validation and comparisons with TOMS V7/V8, *Journal of Geophysical Research*, 112, D07108, doi:10.1029/2005JD006376, 2007.
 15. Kazadzis, S., A. Bais, V. Amiridis, D. Balis, C. Meleti, N. Kouremeti, C. S. Zerefos, S. Rapsomanikis, M. Petrakakis, A. Kelesis, P. Tzoumaka, and K. Kelektoglou, Nine years of UV aerosol optical depth measurements at Thessaloniki, Greece, *Atmospheric Chemistry and Physics*, 7, 2091-2101, 2007.
 16. Giannakaki, E., D.S. Balis, V. Amiridis, and S. Kazadzis, Optical and geometrical characteristics of cirrus clouds over a Southern European lidar station, *Atmospheric Chemistry and Physics*, 7, 5519-5530, 2007.

17. Mamouri, R.E., A. Papayannis, G. Tsaknakis, V. Amiridis, Six-month ground-based water vapour Raman lidar measurements over Athens, Greece and system validation, *Journal of Optoelectronics and Advanced materials*, 9, 11, 3546 – 3548, 2007.
18. Papayannis, A., R.E. Mamouri, G. Ghourdakos, G. Georgoussis, V. Amiridis, D. Paronis, G. Tsaknakis, G. Avdikos, Retrieval of the optical properties of tropospheric aerosols over Athens, Greece combining a 6-wavelength Raman-lidar and the CALIPSO VIS-NIR lidar system: Case-study analysis of a Saharan dust intrusion, *Journal of Optoelectronics and Advanced materials*, 9, 11, 3514 – 3517, 2007.
19. 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.
20. Amiridis, V., D. Melas, D. S. Balis, A. Papayannis, D. Founda, E. Katragkou, E. Giannakaki, R. E. Mamouri, E. Gerasopoulos, and C. Zerefos, Aerosol lidar observations and model calculations of the planetary boundary layer evolution over Greece, during the March 2006 total solar eclipse, *Atmospheric Chemistry and Physics*, 7, 6181-6189, 2007.
21. Papayannis, A., V. Amiridis, L. Mona, G. Tsaknakis, D. Balis, J. Boesenberg, A. Chaikovski, F. De Tomasi, I. Grigorov, I. Mattis, V. Mitev, D. Mueller, S. Nickovic, C. Perez, A. Pietruczuk, G. Pisani, F. Ravetta, V. Rizi, M. Sicard, T. Trickl, M. Wiegner and M. Gerding, Systematic lidar observations of Saharan dust over Europe in the frame of EARLINET (2000-2002), *Journal of Geophysical Research*, 113, D10204, doi:10.1029/2007JD009028, 2008.
22. Mamouri, R.E., A. Papayannis, G. Tsaknakis, V. Amiridis, M. Koukouli, First water vapor measurements over Athens, Greece, obtained by a combined Raman-elastic backscatter lidar system, *Optica Pura Aplicada*, 41 n2, 109-116, 2008.
23. 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, and P. Zanis The total solar eclipse of March 2006: overview, *Atmospheric Chemistry and Physics*, 8, 5205-5220, 2008.
24. Muller D., B. Heinold, M. Tesche, I. Tegen, D. Althausen, L. Alados Arboledas, V. Amiridis, A. Amodeo, A. Ansmann, D. Balis, A. Comeron, G. D'Amico, E. Gerasopoulos, J. L. Guerrero-Rascado, V. Freudenthaler, E. Giannakaki, B. Heese, M. Iarlori, P. Knippertz, R. E. Mamouri, L. Mona, A. Papayannis, G. Pappalardo, R.-M. Perrone, G. Pisani, V. Rizi, M. Sicard, N. Spinelli, A. Tafuro and M. Wiegner, EARLINET Observations of the 14–22-May Long-Range Dust Transport Event During SAMUM 2006: Validation of Results from Dust Transport Modelling, *Tellus*, 61B, 325-339, 2009.

25. Katragkou, E., S. Kazadzis, V. Amiridis, V. Papaioannou, S. Karathanasis, D. Melas, PM10 regional transport pathways in Thessaloniki, Greece, ***Atmospheric Environment***, 43, 1079-1085, 2009.
26. Amiridis, V., D. S. Balis, E. Giannakaki, A. Stohl, S. Kazadzis, M. E. Koukouli, and 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.
27. Georgoulas, A.K., D.K. Papanastasiou, D. Melas, V. Amiridis, G. Alexandri, 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.
28. Kazadzis, S., A. Bais, D. Balis, N. Kouremeti, M. Zempila, A. Arola, E. Giannakaki, V. Amiridis and A. Kazantzidis, Spatial and temporal UV irradiance and aerosol variability within the area of an OMI satellite pixel, ***Atmospheric Chemistry and Physics***, 9, 4593-4601, 2009.
29. Gerasopoulos E., P. Kokkalis, V. Amiridis, E. Liakakou, C. Perez, K. Haustein, K. Eleftheratos, M. O. Andreae, T.W. Andreae, and C. S. Zerefos, Dust specific extinction cross-sections over the EasternMediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments, ***Annales Geophysicae***, 27, 2903–2912, 2009.
30. Amiridis, V., M. Kafatos, C. Perez, S. Kazadzis, E. Gerasopoulos, R.E. Mamouri, A. Papayannis, P. Kokkalis, E. Giannakaki, S. Basart, I. Daglis and C. Zerefos, The potential of the synergistic use of passive and active remote sensing measurements for the validation of a regional dust model, ***Annales Geophysicae***, 27, 3155-3164, 2009.
31. Mamouri, R. E., V. Amiridis, A. Papayannis, E. Giannakaki, G. Tsaknakis, D. Balis, Validation of CALIPSO space-borne derived attenuated backscatter coefficient profiles using a ground-based lidar in Athens, Greece, ***Atmospheric Measurements and Techniques***, 2, 513-522, 2009.
32. Papayannis, A., R.E. Mamouri, V. Amiridis, S. Kazadzis, C. Perez, G. Tsaknakis, P. Kokkalis and J.M. Baldasano, Systematic lidar observations of Saharan dust layers over Athens, Greece in the frame of EARLINET project (2004-2006), ***Annales Geophysicae***, 27, 3611-3620, 2009.
33. Koukouli, M.E., S. Kazadzis, V. Amiridis, C. Ichoku, D. Balis, A. Bais, Signs of a negative trend in the MODIS Aerosol Optical Depth over the Southern Balkans, ***Atmospheric Environment***, 44, 1219-1228, 2010.
34. Balis, D., E. Giannakaki, D. Müller, V. Amiridis, K. Kelektoglou, S. Rapsomanikis, and A. Bais, Estimation of the microphysical aerosol properties over Thessaloniki, Greece, during the SCOUT-O3 campaign with the synergy of

- Raman lidar and Sun photometer data, *Journal of Geophysical Research*, 115, D08202, doi:10.1029/2009JD013088, 2010
35. Giannakaki, E., D. S. Balis, V. Amiridis, and C. Zerefos, Optical properties of different aerosol types: seven years of combined Raman-elastic backscatter lidar measurements in Thessaloniki, Greece, *Atmospheric Measurements and Techniques*, 3, 569-578, doi:10.5194/amt-3-569-2010, 2010
 36. Kazadzis, S., J. Gröbner, A. Arola, and V. Amiridis, The effect of the global UV irradiance measurement accuracy on the single scattering albedo retrieval, *Atmospheric Measurements and Techniques*, 3, 1029-1037, doi:10.5194/amt-3-1029-2010, 2010
 37. Papanastasiou, D.K., A. Poupkou, E. Katragkou, V. Amiridis, D. Melas, N. Mihalopoulos, S. Basart, C. Perez, and J.M. Baldasano, An assessment of the efficiency of dust regional modeling to predict Saharan dust transport episodes, *Advances in Meteorology*, doi:10.1155/2010/154368, 2010
 38. Amiridis, V., E. Giannakaki, D.S. Balis, E. Gerasopoulos, I. Pytharoulis, P. Zanis, 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

b. In conference proceedings

1. Balis, D., C. Zerefos, V. Amiridis, C. Meleti, A. Bais, A. Kazantzidis, A. Papayannis, G. Chourdakis, G. Tsaknakis, and T. Trickl, Study of the aerosol effect on the UV-B irradiance at the earth's surface. Cases studies selected from urban sites of the EARLINET project, in *Journal of Aerosol Science, European Aerosol Conference 2001, September 3-7, Leipzig, Germany*, 32, p391-392, 2001.
2. Böckmann, C., U. Wandinger, A. Ansmann, J. Bösenberg, V. Amiridis, A. Delaval, F. De Tomasi, M. Frioud, L. Komguem, S. Kreipl, G. Larcheveque, V. Matthias, A. Papayannis, V. Rizi, F. Rocadenbosch, J. Schneider, V. Shcherbakov, N. Spinelli, and M. Wiegner, Earlinet – Lidar algorithm intercomparison, in *Journal of Aerosol Science, European Aerosol Conference 2001, September 3-7, Leipzig, Germany*, 32, p433-434, 2001.
3. Papayannis, A., A. Boselli, B. Calpini, A. Chaikovsky, G. Chourdakis, V. Cuomo, M. Frioux, M. Iarlori, S. Kreipl, G. Larcheveque, R. Matthey, G. Pappalardo, J. Pelon, M. R. Perrone, V. Rizi, F. Rocadenbosch, L. Sauvage, P. Sobolewski, C. Soriano, N. Spinelli, F. De Tomasi, V. Amiridis, D. Balis, and T. Trickl, Simultaneous observations of free Tropospheric Saharan dust layers over Europe monitored by a co-ordinated ground-based Lidar network in the frame of the

- Earlinet project, in *Journal of Aerosol Science, European Aerosol Conference 2001, September 3-7, Leipzig, Germany*, 32, p389-400, 2001.
4. Amodeo, A., G. Pappalardo, U. Wandinger, V. Matthias, J. Bösenberg, M. Alpers, V. Amiridis, F. De Tomasi, M. Frioud, M. Iarlori, L. Komguem, G. Larcheveque, A. Papayannis, and X. Wang, Raman Lidar Algorithm Intercomparison in the Frame of EARLINET, in *Lidar Remote Sensing in Atmospheric and Earth Sciences, 21st International Laser Radar Conference (ILRC21), July 8-12, Quebec, Canada*, p349-352, 2002.
 5. Balis, D., V. Amiridis, C. Zerefos, and A. Papayannis, Verification of the Experimental Determination of the Lidar Overlap Profile by a Raman Lidar, in *Lidar Remote Sensing in Atmospheric and Earth Sciences, 21th International Laser Radar Conference (ILRC21), July 8-12, Quebec, Canada*, p125-128, 2002.
 6. Balis, D., V. Amiridis, C. Zerefos, C. Meleti, S. Kazantzidis, S. Kazadzis, A. Bais, A. Papayannis, and G. Chourdakis, The effect of aerosols on the UV Irradiance at the earth's surface. Lidar and irradiance measurements during EARLINET, in *Lidar Remote Sensing in Atmospheric and Earth Sciences, 21st International Laser Radar Conference (ILRC21), July 8-12, Quebec, Canada*, p365-368, 2002.
 7. Böckmann, C., U. Wandinger, A. Ansmann, J. Bösenberg, V. Amiridis, A. Boselli, A. Delaval, F. De Tomasi, M. Frioud, A. Hågård, M. Iarlori, L. Komguem, S. Kreipl, G. Larcheveque, V. Matthias, A. Papayannis, G. Pappalardo, F. Rocodenbosch, and J. Schneider, EARLINET: Backscatter lidar algorithm intercomparison, in *Lidar Remote Sensing in Atmospheric and Earth Sciences, 21st International Laser Radar Conference (ILRC21), July 8-12, Quebec, Canada*, p353-356, 2002.
 8. Balis, D., V. Amiridis, C. Zerefos, R-E. Mamouri, and A. Papayannis, Regional and long range transported aerosols detected with a Raman lidar over Thessaloniki, Greece, in *Journal of Aerosol Science, European Aerosol Conference 2003, August 31 - September 5, Madrid, Spain*, 34, p1041-1042, 2003.
 9. Balis, D., 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 during a biomass burning episode over Thessaloniki, Greece, in *Journal of Aerosol Science, European Aerosol Conference 2003, August 31 - September 5, Madrid, Spain*, 34, p1107-1108, 2003.
 10. Amiridis, V., D. Balis, C. Zerefos, D. Melas, I. Morfidou, and A. Papayannis, Aerosol lidar measurements in the planetary boundary layer and free troposphere over Thessaloniki, Greece, within the EARLINET project, in *Proceedings of the*

6th International Symposium on Tropospheric Profiling, September 14-20, Leipzig, Germany, p348-350, 2003.

11. Balis, D., V. Amiridis, C. Zerefos, , C. Meleti, A. Kazantzidis, S. Kazadzis, A.F. Bais, and A. Papayannis, Experimental estimates of the lidar ratio and the single scattering albedo during EARLINET and their association with the levels of UV irradiance at the Earth's surface, *in Proceedings of the 6th International Symposium on Tropospheric Profiling, September 14-20, Leipzig, Germany*, p351-353, 2003.
12. Kazadzis, S., A. Bais, N. Kouremeti, E. Gerasopoulos, V. Amiridis, K. Garane, Aerosol optical depth measurements (1997-2003) at Thessaloniki, Greece, *in Quadrennial Ozone Symposium (QOS 2004), June 1-8, Kos, Greece*, p980-981, 2004.
13. Galani, E., D. Balis, A. Papayannis, C. Zerefos, P. Zanis, and V. Amiridis, An assessment of the characteristics of the A.U.TH. ultra-violet DIAL ozone measuring system, *in Quadrennial Ozone Symposium (QOS 2004), June 1-8, Kos, Greece*, 2004.
14. Amiridis, V., D. Balis, and S. Kazadzis, Below-cloud scavenging (rainout) of aerosol particles measured with a backscatter lidar, *in Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference (ILRC22), July 12-16, Matera, Italy*, p669-671, 2004.
15. Balis, D., V. Amiridis, S. Nickovic, A. Papayannis, C. Zerefos, and E. Giannakaki, Optical Properties of Saharan dust over Thessaloniki, Greece, *in Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference (ILRC22), July 12-16, Matera, Italy*, p887-890, 2004.
16. Balis, D., A. Papayannis, N. Kalivitis, G. Chourdakis, V. Amiridis, M. Vrekoussis, N. Mihalopoulos, M. Kanakidou, and G. Tsaknakis, Extinction of solar radiation over the East Mediterranean under Sahara dust influence, *in Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference (ILRC22), July 12-16, Matera, Italy*, p869-872, 2004.
17. Giannakaki, E., V. Amiridis, and D. Balis, Cirrus measurements with a Raman lidar over Thessaloniki, Greece, during EARLINET, *in Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference (ILRC22), July 12-16, Matera, Italy*, p391-393, 2004.
18. Papayannis, A., D. Balis, G. Tsaknakis, V. Amiridis, C. Zerefos, and S. Tzortzakos, Profiling of aerosol optical properties over Athens and Thessaloniki, Greece, during special events using ground based elastic backscatter – Raman lidar systems (2000-2003), *in Reviewed and Revised Papers Presented at the 22nd International Laser Radar Conference (ILRC22), July 12-16, Matera, Italy*, p891-894, 2004.

19. Koukouli, M., D. Balis, A. Bais, V. Amiridis, S. Kazadzis, E. Giannakaki, N. Kouremeti, and O. Torres, Aerosol characterization over Northern Greece; aerosol loading derived from satellite observations and ground-based measurements, in ***Proceedings of the Atmospheric Science Conference (ESA Special Publication), May 8-12, ESA-ESRIN, Frascati, 2006.***
20. Balis, D.S., J.C. Lambert, M.V. Roozendael, R. Spurr, D. Loyola, Y. Livschitz, P. Valks, V. Amiridis, P. Gerard, J. Granville, C. Zehner, 10-Years Operational COME/ERS-2 Total Column Products: The GDP 4.0 Validation, in ***Proceedings of the Atmospheric Science Conference (ESA Special Publication), May 8-12, ESA-ESRIN, Frascati, 2006.***
21. Balis, D., E. Brinksma, M. Kroon, V. Amiridis, C. Zerefos, Validation of OMI total ozone using ground-based Brewer observations, in ***Proceedings of the Atmospheric Science Conference (ESA Special Publication), May 8-12, ESA-ESRIN, Frascati, 2006.***
22. Koukouli, M.E., D. Balis, A. Bais, V. Amiridis, S. Kazadzis, A. Georgoulas, Analysis of Physical characteristics of Aerosols over Thessaloniki using ground based observations and satellite measurements, in ***8th Panhellenic-International conference of Meteorology and Atmospheric Physics, May 24-26, Athens, Greece, 2006.***
23. Anthis A. D. Balis, C. Zerefos, V. Amiridis, V. Maliatsos and G. Gousteris, Hellenic contribution (LAP-HNMS) in the program Ozone Monitoring Satellite Application of EUMETSAT, in ***8th Panhellenic-International conference of Meteorology and Atmospheric Physics, May 24-26, Athens, Greece, 2006.***
24. Balis D., V. Amiridis, E. Giannakaki, S. Kazadzis, C. Zerefos, A. Papayannis, The effect of fires in Russia's Southern Argicultural District on the aerosol loading over Northern Greece. Raman lidar and sunphotometric measurements of biomass burning aerosol optical properties, in ***Proceedings of the 7th International Symposium on Tropospheric Profiling: Needs and Technologies, June 11-17, Boulder, Colorado, 2.13-P 2006.***
25. Balis D., V. Amiridis, E. Giannakaki, S. Kazadzis, A. Arola, A. Papayannis, Characteristics of biomass burning aerosols over SE Europe determined from lidar and sunphotometric measurements, in ***Proceedings of the 23rd International Laser and Radar conference (ILRC23), July 24-28, Nara, Japan, 2006.***
26. Giannakaki E., V. Amiridis, D. Balis, Mean optical characteristics of cirrus clouds at a mid-latitude EARLINET station, in ***Proceedings of the 23rd International Laser and Radar conference (ILRC23), July 24-28, Nara, Japan, 2006.***
27. Amiridis V., E. Giannakaki, M. Koukouli, S. Kazadzis, D. Balis, A. Bais, Evaluation of the OMI aerosol index using coincident lidar observations, in ***Proceedings of the 23rd International Laser and Radar conference (ILRC23), July 24-28, Nara, Japan, 2006.***

28. Balis, D., V. Amiridis, E. Giannakaki, F. Boubouloudis, CALIPSO correlative measurements over Thessaloniki EARLINET station: First results, *in 4th Workshop on Lidar Measurements in Latin America, June 17-23, Ilhabela, São Paulo, Brazil*, 2007.
29. Giannakaki E., D. Balis, V. Amiridis, S. Kazadzis, Optical and geometrical properties of cirrus clouds over a mid-latitude lidar station, *in 4th Workshop on Lidar Measurements in Latin America, June 17-23, Ilhabela, São Paulo, Brazil*, 2007.
30. Mamouri, R-E, A. Papayannis, V. Amiridis, G. Chourdakis and G. Georgoussis, Aerosol lidar measurements in the Planetary Boundary Layer and the free troposphere over Athens, Greece, *in 4th Workshop on Lidar Measurements in Latin America, June 17-23, Ilhabela, São Paulo, Brazil*, 2007.
31. Amiridis, V., D. Balis, E. Giannakaki, S. Kazadzis, A. Arola, A. Papayannis, Characteristics of biomass burning aerorols over SE Europe determined from Lidar and Sunphotometer measurements, *in 4th Workshop on Lidar Measurements in Latin America, June 17-23, Ilhabela, São Paulo, Brazil*, 2007.
32. Papayannis A., V. Amiridis, R.E. Mamouri, G. Tsaknakis, Correlative measurements of aerosols and water vapor profiles over Athens, Greece during 2006-2007 in the frame of EARLINET-ASOS, *in Proceedings of the International Union of Geology and Geodesy (IUGG), XXIV General Assembly, July 2-13, Perugia, Italy*, 2007.
33. Papayannis A., V. Amiridis, G. Tsaknakis, D. Balis, J. Bösenberg, A. Chaikovski, F. De Tomasi, I. Grigorov, I. Mattis, V. Mitev, D. Müller, L. Mona, S. Nickovic, J. M. Baldasano, A. Pietruczuk, G. Pisani, F. Ravetta, V. Rizi, M. Sicard, T. Trickl, and M. Wiegner, First systematic observations of Saharan dust over Europe during EARLINET 2000-2002): Statistical analysis and results, *in Proceedings of the International Union of Geology and Geodesy (IUGG), XXIV General Assembly, July 2-13, Perugia, Italy*, 2007.
34. Papayannis, A, C. Y. Fu, Z. Huaiqing, V. Amiridis, G. Chourdakis, G., Georgoussis, C. Pérez, H. B. Chen, P. Goloub, R. E. Mamouri, S. Kazadzis, D. Paronis, G. Tsaknakis, J.M. Baldasano, Extra-ordinary dust event over beijing, china during april 2006: lidar, sun photometric, satellite observations and model validation, *in Proceedings of the International Union of Geology and Geodesy (IUGG), XXIV General Assembly, July 2-13, Perugia, Italy*, 2007.
35. Koukouli, M.E., S. Kazadzis, V. Amiridis, C. Ichoku, D.S. Balis, Comparisons of satellite derived aerosol optical depth over a variety of sites in the southern Balkan region as an indicator of local air quality, *in Proceedings of SPIE, Vol. 6745, Remote Sensing of Clouds and the Atmosphere XII, doi:10.1117/12.737681, September 17-20, Florence, Italy*, 2007.

36. Giannakaki, E., D.S. Balis, V. Amiridis, S. Kazadzis, Optical properties of cirrus clouds at a mid-latitude EARLINET station, in ***Proceedings of SPIE, Vol. 6745, Remote Sensing of Clouds and the Atmosphere XII***, doi:10.1117/12.740698, September 17-20, Florence, Italy, 2007.
37. Papayannis, A., R.E. Mamouri, G. Tsaknakis, V. Amiridis, Measurements of the vertical profiles of water vapor over Athens, using a ground based Raman- Lidar System, in ***9TH COMECAP 2008, May 28-31, Thessaloniki, Greece***, 2008.
38. Kafatos, M. and V. Amiridis, Integrated methodology for aerosol characterization, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
39. Amiridis, V., S. Kazadzis, D. Balis, A. Bais, and C. Zerefos, LIDAR and sunphotometric measurements of aerosol optical properties over Thessaloniki, Greece, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
40. Daglis, I.A. and V. Amiridis, Environmental research through remote sensing at NOA/ISARS, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
41. Amiridis, V., S. Kazadzis, A.F. Bais and I.A. Daglis, Establishment of a radiometric aerosol station for satellite validation at Athens, Greece, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
42. Kokkalis, P., E. Gerasopoulos, V. Amiridis, R.E. Mamouri, M. Koukouli, S. Kazadzis, and A. Papayannis, Climatology of aerosol optical depth over Athens, Greece using ground-based (LIDAR, Multi-filter Radiometer) and satellite data (MODIS), in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
43. Mamouri, R.E., A. Papayannis, V. Amiridis, D. Müller, A. Nenes and G. Tsaknakis, LIDAR derived aerosol properties for fresh smoke over Athens, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
44. Mamouri, R.E., A. Papayannis, V. Amiridis and G. Tsaknakis, CALIPSO and ground-based LIDAR correlative measurements over Athens: preliminary results, in ***1st International Conference: From Deserts to Monsoons, June 1-6, Crete, Greece***, 2008.
45. Mamouri, R.E., V. Amiridis, A. Papayannis, G. Tsaknakis, CALIPSO-NTUA Raman lidar intercomparison: preliminary results over an urban site (Athens, Greece), in ***Proceedings of the 24th International Laser and Radar conference (ILRC24), July 24-28, Colorado***, 2008.

46. Balis, D., E. Giannakaki, V. Amiridis, F. Boubouloudis, CALIPSO correlative measurements over Thessaloniki EARLINET station: First results, in ***Proceedings of the 24th International Laser and Radar conference (ILRC24), July 24-28, Colorado***, 2008.
47. Giannakaki, E., D. Balis, D. Mueller, V. Amiridis, S. Rapsomanikis, A. Bais, Estimates of microphysical aerosol properties over Thessaloniki, Greece, using a Raman lidar and sunphotometric data, in ***Proceedings of the 24th International Laser and Radar conference (ILRC24), July 24-28, Colorado***, 2008.
48. Mamouri, R.E., A. Papayannis, A. Nemuc, D. Nicolae, E. Giannakaki, D. Balis, G. Tsaknakis, V. Amiridis, G. Georgoussis, G. Avdikos, Air mass modification observed by ground-based and space-borne (CALIPSO) lidars over the Balkan Peninsula, in ***Proceedings of the 24th International Laser and Radar conference (ILRC24), July 24-28, Colorado***, 2008.
49. Ravetta, F., C. Tsamalis, S. Turquety, D. Josset, J. Pelon, E. Real, A. Papayannis, R.E. Mamouri, G. Tsaknakis, V. Amiridis, J. Fischer, Lidar and satellite observations of biomass burning plumes over the Mediterranean region in summer 2007: transport processes, radiative forcing and chemical signature, in ***Proceedings of the 24th International Laser and Radar conference (ILRC24), July 24-28, Colorado***, 2008.
50. Giannakaki, E., D. Balis, V. Amiridis and M. Koukouli, Optical properties of different aerosol types determined by a Backscatter-Raman lidar at Thessaloniki, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
51. Kokkalis, P., E. Gerasopoulos, V. Amiridis, R.E. Mamouri, G. Tsaknakis, M. Koukouli, S. Kazadzis and A. Papayannis Study of the aerosol optical depth variability over Athens, Greece using ground-based (lidar, multi-filter radiometer) and satellite data (MODIS), in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
52. Mamouri, R.E., N. Aggelou, G. Tsaknakis, A. Papayannis, G. Georgoussis, G. Avdikos and V. Amiridis, Correlative aerosol and relative humidity measurements performed by a ground-based Raman lidar system over Athens, Greece, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
53. Kazadzis, S., A. Bais, A. Tanskanen, D. Balis, M. Zebila, N. Kouremeti, A. Kazantzidis, E. Giannakaki, C. Meleti, V. Amiridis and J. Herman, OMI campaign: The effect of spatial and temporal aerosol variability on OMI solar irradiance products, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
54. Papayannis, A., G. Georgoussis, R. Mamouri, G. Tsaknakis, G. Avdikos, K. Eleftheriadis, S. Vratolis, V. Amiridis, C. Housiadas, P. Neofytou and Y.

- Roukoutakis, First near-horizontal aerosol measurements over Athens, Greece using a volume scanning eye-safe lidar system, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
55. Balis, D., E. Giannakaki, S. Bourtsoukidis, V. Amiridis and G. Georgousis, Spatial and vertical variability of aerosol optical properties within a satellite pixel over the greater area of Thessaloniki during the OMI campaign in October 2007, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
 56. Mamouri, R.E., A. Papayannis, V. Amiridis, G. Tsaknakis, E. Gerasopoulos and P. Kokkalis, Raman lidar measurements of fresh smoke over Athens, during summer 2007, in ***Journal of Aerosol Science, European Aerosol Conference 2008, August 24-29, Thessaloniki, Greece***, 2008.
 57. Koukouli, M.E., S. Kazadzis, V. Amiridis, C. Ichoku and D. Balis, Discussions on the satellite-derived aerosol optical depth over a variety of sites in the Southern Balkan region as an indicator of local air quality, in ***Proceedings of the IX EMTE National-International Conference of Meteorology-Climatology and Atmospheric Physics, May 28-31, Thessaloniki, Greece***, 2008.
 58. Georgoulas, A.K., M.E. Koukouli, V. Amiridis, C. Meleti, G. Alexandri, D. Balis, A. Bais and C. Zerefos, A study of the Sulfur Dioxide transport above the city of Thessaloniki, Greece, in ***Proceedings of the IX EMTE National-International Conference of Meteorology-Climatology and Atmospheric Physics, May 28-31, Thessaloniki, Greece***, 2008.
 59. Kazadzis, S., A. Bais, D. Balis, M. Zebila, N. Kouremeti, A. Kazantzidis, E. Giannakaki, M. Koukouli, C. Meleti, V. Amiridis, J. Herman, A. Tanskanen, Evaluation of OMI-derived UV radiation, total ozone and aerosol properties against ground-based measurements, in ***Proceedings of the IX EMTE National-International Conference of Meteorology-Climatology and Atmospheric Physics, May 28-31, Thessaloniki, Greece***, 2008.
 60. Mamouri, R.E., A. Papayannis, G. Tsaknakis, V. Amiridis, Measurements of the vertical profiles of water vapour over Athens, using a ground-based Raman lidar system, in ***Proceedings of the IX EMTE National-International Conference of Meteorology-Climatology and Atmospheric Physics, May 28-31, Thessaloniki, Greece***, 2008.
 61. Papayannis, A., R. E. Mamouri, A. Nenes, G. Tsaknakis, V. Amiridis, G. Georgoussis, G. Avdikos, C. Böckmann, L. Osterloh, K. Eleftheriadis, D. Böhme and A. Stohl, Optical, microphysical and chemical properties of tropospheric aerosols retrieved by a 6-wavelength RAMAN lidar system during a biomass burning event during summer 2007 over Athens, in ***IGAC 10th International Conference, September 7-12, Annecy, France***, 2008.

62. Mamouri, R.E., A. Papayannis, G. Tsaknakis, V. Amiridis, G. Georgoussis, C. Pérez, A. Stohl and J.M. Baldasano, Follow up of Saharan dust and smoke aerosol transport over the Mediterranean region revealed by CALIPSO and ground-based lidars with modeling support, **in IGAC 10th International Conference, September 7-12, Annecy, France, 2008.**
63. Ravetta, F., C. Tsamalis, S. Turquety, D. Josset, J. Pelon, E. Real, A. Papayannis, R.E. Mamouri, G. Tsaknakis, V. Amiridis, J. Fischer, Lidar and satellite observations of biomass burning plumes over the Mediterranean region in summer 2007: Transport processes, radiative forcing and chemical signature, **in IGAC 10th International Conference, September 7-12, Annecy, France, 2008.**
64. A. Papayannis, V. Amiridis, L. Mona, R. E. Mamouri, A. Apituley, L. Alados-Arboledas, D. Balis, A. Chaikovski, F. De Tomasi, I. Grigorov, O. Gustafsson, H. Linne, I. Mattis, V. Mitev, F. Molero, D. Müller, D. Nicolae, C. Pérez, A. Pietruczuk, J.P. Putaud, F. Ravetta, V. Rizi, F. Schnell, M. Sicard, V. Simeonov, K. Stebel, T. Trickl, G. D'Amico, G. Pappalardo and X. Wang, "Coordinated lidar observations of Saharan dust over Europe in the frame of EARLINET-ASOS Project during calipso overpasses: A strong dust case study analysis with modeling support", **in Proceedings of SPIE Europe Remote Sensing: Lidar Technologies, Techniques and Measurements for Atmospheric remote Sensing, 7949, Berlin, Germany, 31 August – 1 September, 2009.**
65. R. Mamouri, A. Papayannis, V. Amiridis, P. Kokkalis, C. Pérez, G. Tsaknakis, "Three+two Raman lidar system configuration for space-borne active remote sensing system validation over Athens, Greece in the frame of the EARLINET-ASOS and ESA-CALIPSO projects, **in Proceedings of SPIE Europe Remote Sensing: Lidar Technologies, Techniques and Measurements for Atmospheric remote Sensing, 7949, 31 August – 1 September, Berlin, Germany, 2009.**
66. Balis D., E. Giannakaki, E. Katragkou, M. Wiegner, K. Markakis, T. Giannaros and V. Amiridis, Differences of the aerosol load between an urban and suburban site using remote sensing measurements and model estimates, **in European Aerosol Conference, T046A18, Karlsruhe, Germany, 6 – 11 September, 2009**
67. R.E. Mamouri, A. Papayannis, V. Amiridis, G. Tsaknakis, P. Kokkalis, Aerosol properties related to Saharan dust regional dust events as observed over Athens using a multi-wavelength Raman lidar system, **in Proceedings of Optoelectronic Techniques for Environmental Monitoring (OTEM), 30 September - October Bucharest, Romania, 2009.**
68. P. Kokkalis V. Amiridis, R. E Mamouri, A. Papayannis, G. Tsaknakis and C. Pérez, Aerosol vertical profiling and characterization during dust events over Athens, Greece. Synergy of ground-based and spaceborne lidars and sun photometry, **in International Symposium in Tropospheric Profiling (ISTP), 18-23 October, Delft, Holland, 2009.**

69. A. Papayannis, R.E. Mamouri, V. Amiridis, C. Pérez and G. Tsaknakis, Systematic lidar observations of Saharan dust layers over Athens, Greece in the frame of EARLINET project (2004-2006), **in *International Symposium in Tropospheric Profiling (ISTP), 18-23 October, Delft, Holland, 2009.***
70. Amiridis, V., H. Kambezidis, A. Papayannis, R.E. Mamouri, P. Kokkalis, G. Tsaknakis, G. Georgoussis, G. Avdikos, Intercomparison of lidar and ceilometer retrievals for aerosol and Planetary Boundary Layer profiling over Athens, Greece, **in *International Symposium in Tropospheric Profiling (ISTP), 18-23 October, Delft, Holland, 2009.***
71. Giannakaki E., Balis D., Amiridis V., Seven years of Raman/backscatter lidar observations of free-tropospheric aerosol layers over Thessaloniki, Greece: Geometrical properties, **in *International Symposium on Tropospheric Profiling: Needs and Technologies, 18 -23 October, Delft, Netherlands, 2009.***
72. Amiridis V., Giannakaki E., Balis D., Characteristics of smoke from biomass burning in Eastern Europe by the synergy of satellite active and passive remote sensing, **in *International Symposium on Tropospheric Profiling: Needs and Technologies, 18 -23 October, Delft, Netherlands, 2009.***
73. Balis D., Giannakaki E., Amiridis V., Perez C., Saharan dust observations over Thessaloniki using backscatter/Raman lidar and BSC/DREAM model, **in *International Symposium on Tropospheric Profiling: Needs and Technologies, 18 -23 October, Delft, Netherlands, 2009.***