

Brief CV of Konstantinos Kourtidis

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Studies: B. Sc. in Physics, Aristotle University of Thessaloniki (March 1987), Ph.D. in Physics, Aristotle University of Thessaloniki (December 1991).

Professional experience (selection):

1. Doctoral Fellowship of the Max-Planck-Gesellschaft at the Max Planck Institute for Aeronomy, Katllenburg-Lindau, Germany (1.10.1987-31.11.1991); research Fellowship of the Max-Planck-Gesellschaft at the Max Planck Institute for Aeronomy, Katllenburg-Lindau, Germany (1.12.1991-31.12.1993); post-doctoral Fellowship of the Max-Planck-Gesellschaft at the Max Planck Institute for Aeronomy, Katllenburg-Lindau, Germany (1.5.1995-31.7.1995).
2. NASA/JPL scholarship, Summer School of Earth Sciences: Processes of Global Change, Pasadena, CA, USA, 15-19.8.1993.
3. Visiting Research Scholarship at Goddard Space Flight Center, NASA , Greenbelt, USA. (June 2000).
4. Associate Professor of Atmospheric Physics and Technology at the Environmental Engineering Dept., School of Engineering, Democritus University of Thrace, (since 2003). Department Vice-Chair (9.2010-8.2012).
5. Managing Editor of the on-line Newsletter of the European Geosciences Union (www.the-eggs.org, since 11.2002); managing administrator of the geoscientific images database of the European Geosciences Union (www.imaggeo.org, since 4.2007).
6. Member of the Publication Committee of the European Geosciences Union (EGU) (since 11.2002) and Member of the Education, Outreach News and Sponsorship Committee of EGU (since 2.2006). Chair of the Media and Outreach Committee της European Geosciences Union (since 5.2008)
7. Member in several professional organizations, referee at several scientific journals; Reviewer, UNEP EEAP Report on Environmental Effects of Ozone Depletion and Interactions with Climate Change, 2006 and 2010.
8. National Delegate in PBE0 (Programme Board for Earth Observation) during the period 11.2004-12.2010 and DOSTAG (Data Operations Scientific and Technical Advisory Group) since 11.2004 of the European Space Agency (ESA); member of the GSRT Working Group for the realization and monitoring of the accession of Greece in ESA since 11.2004. National Representative of Greece in EU's COST ESSEM (Cooperation in Science and Technology Earth System Science and Environmental Management) Domain Committee since 12.2010.
9. Participation in 40 national and international research programmes; PI in several of these.

10.39 publications in journals included in ISI, in 14 first author; 7 contributions in monographs, around 50 publications in international and 5 in national conference proceedings; 1 published book; around 400 citations in Science Citation Index.

Awards

European Geosciences Union Service Award 2007 (citation: "in recognition of his generous and innovative services as Managing Editor of the EGU Newsletter", see http://www.copernicus.org/EGU/awards/union_service_award_overview.html).

Publications in ISI-indexed scientific journals (selection)

1. **Kourtidis K. A.**, R. Borchers, P. Fabian and J. Harnisch, Carbonyl sulfide (COS) measurements in the Arctic Polar Vortex. *Geophys. Res. Lett.* 22, 393-396, 1995.

2. **Kourtidis K.**, R. Borchers and P. Fabian, Dibromomethane (CH₂Br₂) measurements in the upper troposphere and the lower stratosphere. *Geophys. Res. Lett.* 23, 2581-2583, 1996.

3. **Kourtidis K.A.**, R. Borchers and P. Fabian, Vertical distribution of methyl bromide (CH₃Br) in the stratosphere, *Geophys. Res. Lett.* 25, 505-508, 1998.

4. **Kourtidis K.A.**, I. C. Ziomas, B. Rappenglueck, A. Proyou and D. Balis, Evaporative traffic hydrocarbon emissions, traffic CO and speciated HC emissions from the city of Athens, *Atmospheric Environment* 33, 3831-3842, 1999.

5. Jonson J.E., A. Kylling, T. Berntsen, I.S.A. Isaksen, C.S. Zerefos and **K. Kourtidis**, Chemical effects of UV fluctuations inferred from total ozone and tropospheric aerosol variations, *J. Geophys. Res.* 105, 14,561-14,574, 2000.

6. Zerefos, C., D.S. Balis, C. Meleti, A.F. Bais, K. Tourpali, **K. Kourtidis**, K. Vanicek, F. Capelani, U. Kaminski, T. Colombo, R. Stubi, L. Manea, P. Formenti, M.O. Andreae, Changes in Surface Solar UV irradiances and Total Ozone during the Solar Eclipse of August 11, 1999, *J. Geophys. Res.*, 105, 26,463-26,473, 2000.

7. **Kourtidis K.**, C. Zerefos, S. Rapsomanikis, V. Simeonov, D. Balis, E. Kosmidis, P. E. Perros, A. Thompson, J. Witte, B. Calpini, W. M. Sharobiem, A. Papayannis, N. Mihalopoulos, and R. Drakou,, Regional Levels of Ozone in the Troposphere over Eastern Mediterranean, *J. Geophys. Res.*, 107, D18, 8140, DOI: 10.1029/2000JD000140, 13 pages, 2002.

8. **Kourtidis K.**, I. Ziomas, C. Zerefos, E. Kosmidis, P. Symeonidis, E. Christophilopoulos, S. Karathanassis and A. Mploutsos, Benzene, toluene, ozone, NO₂ and SO₂ measurements in an urban street canyon in Thessaloniki, Greece, *Atmos. Environ.*, *36*, *34*, 5355-5364, 2002.

9. **Kourtidis, K.**; Kelesis, A.; Maggana, M.; Petrakakis, M., Substantial traffic emissions contribution to the global H₂S budget, *Geophys. Res. Lett.*, *31*, *18*, L18107, 10.1029/2004GL020713, 4 pages, 2004.

10. **Kourtidis, K.**, Transfer of organic Br and Cl from the biosphere to the atmosphere during the Cretaceous/Tertiary impact: Implications for the stratospheric ozone layer, *Atmospheric Chemistry and Physics*, *5*, 207-214, 2005.

11. **Kourtidis, K.**, I. Kioutsoukis, D.F. McGinnis and S. Rapsomanikis, Effects of methane outgassing on the Black Sea atmosphere, *Atmospheric Chemistry and Physics*, *6*, 5173-5182, 2006.

12. **Kourtidis, K.**; Kelesis, A.; Petrakakis, M., Hydrogen sulfide (H₂S) in urban ambient air, *Atmos. Env.*, *42*, *32*, 7476-7482, DOI: 10.1016/j.atmosenv.2008.05.066, 2008.

13. Kelektsoylou K., **K. Kourtidis**, D. S. Balis and S. Rapsomanikis, A 1-year remote sensing study of radiative effects of aerosol and clouds over the NE Mediterranean, *Int. J. Remote Sens.*, *32*(1), 1-16, doi:10.1080/01431161.2010.549524, 2011.

14. Georgoulas A.K., **Kourtidis K.A.**, Buchwitz M., Schneising O., Burrows J.P., A case study on the application of SCIAMACHY satellite methane measurements for regional studies: the Greater Area of Eastern Mediterranean, *Int. J. Remote Sens.*, *32*(3), 787-813, doi:10.1080/01431161.2010.517791, 2011.

15. Georgoulas, A. K. and **Kourtidis, K. A.**: On the aerosol weekly cycle spatiotemporal variability over Europe, *Atmospheric Chemistry and Physics*, *11*, 4611-4632, doi:10.5194/acp-11-4611-2011, 2011.

16. Georgoulas, A. K. and **Kourtidis, K. A.**: A high resolution satellite view of the aerosol weekly cycle variability over Central Europe, *Atmospheric Research*, *107*, 145-160, doi:10.1016/j.atmosres.2012.01.003, 2012.

17. Georgoulas, A. K., **Kourtidis, K. A.**, Kosmidis E., Despotakis F. and Symeonidis P.: AMFIC-WSDB: a web database for hosting and easy retrieval of atmospheric data from satellites", *Computers and Geosciences*, *48*, 57-66, DOI/10.1016/j.cageo.2012.05.001, 2012.

Books

K. Kourtidis, Global Biogeochemical cycles: Recycling in the global natural geosystem, Tziolas Publications, Thessaloniki, 2012, 236 pages (in Greek).

Recent participation in projects (selection)

1. AIRSAT – Development of techniques for the integrated monitoring of atmospheric environment (P.I.), PYTHAGORAS, Greek Ministry of Education, 2005-2007.
2. Air Quality Monitoring and Forecasting in China (AMFIC) (P.I.), E.U., DG TREN Aeronautics and Space, 2007-2009.
3. Feasibility Study for a Low-Flying Spacecraft for the study of the Mesosphere and the Lower Thermosphere» (Lead Scientist for WP1), ESA, 2007-2008.
4. Urban Heat Island (Independent Expert), ESA, 2008-2011.
5. Thermopolis 2009 Campaign (Ground segment coordinator), ESA, 2009-2010.