

Curriculum Vitae of Kostas Eleftheratos

Assistant Professor, National and Kapodistrian University of Athens

Personal details

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Date of birth: 14 December 1976,
Place of birth: Athens, Greece
Military service: May 2007 – February 2008
Family status: Married, one child

Education

1995 – 2000 Graduate studies, Department of Environment, University of the Aegean (degree: Very well, 7.56).
2000 – 2002 Postgraduate studies in Environmental Physics, Department of Physics, Aristotle University of Thessaloniki (degree: Excellent, 9.28).
2003 – 2007 PhD diploma, Geography – Climatology Division, Department of Geology and Geoenvironment, NKUA (degree: Excellent).

Doctoral dissertation

“Natural and anthropogenic variations of cirrus cloud cover and their effects on the atmospheric environment” [Φυσικές και ανθρωπογενείς μεταβολές των Θυσσάνων και οι επιπτώσεις τους στο ατμοσφαιρικό περιβάλλον], Doctoral dissertation, supervision Professor-Academician Dr. Christos Zerefos, Department of Geology and Geoenvironment, NKUA, Athens, Greece, 130 p., 2007 (in Greek).

Professional experience

2001 – 2002 Scientific Collaborator, Laboratory of Atmospheric Physics, Department of Physics, Aristotle University of Thessaloniki, Greece.
2002 – 2011 Scientific Collaborator, Laboratory of Climatology and Atmospheric Environment, Department of Geology and Geoenvironment, NKUA, Greece.
2003 – Affiliated Investigator, Center for Environmental Effects on Health, Biomedical Research Foundation of the Academy of Athens, Greece. Responsible for the operation, maintenance and publication of measurements of total ozone and ultraviolet solar radiation from the Brewer MKIV spectrophotometer.
2008 Scientific Collaborator, National Observatory of Athens, Greece.

- 2010 – Scientific Collaborator, Research Centre for Atmospheric Physics and Climatology, Academy of Athens, Greece.
- 2012 – 2016 Lecturer of Atmospheric Physics, Department of Geology and Geoenvironment, NKUA, Greece.
- 2016 – Assistant Professor of Atmospheric Physics with applications to Climatology, Department of Geology and Geoenvironment, NKUA, Greece.

Research interests

- Changes in the composition of the atmosphere on short and long time and space scales (clouds, greenhouse gases, aerosols, ozone, solar irradiance)
- Study of natural climatic oscillations
- Atmospheric effects from aircraft emissions
- Atmospheric pollution
- Changes in climatic parameters (air temperature, precipitation)

Participation in competitive research projects and networks

International projects and networks

1. EC FP5 Project "Liquid hydrogen fuelled aircraft system analysis (CRYOPLANE)", Coordinator H. G. Klug, 2000–2002.
2. EC FP5 Project "Aircraft emissions: Contributions of various climate compounds to changes in composition and radiative forcing – tradeoffs to reduce atmospheric impact (TRADEOFF)", Coordinator I. Isaksen, UiO, Norway, 2000–2003.
3. COST Action 723 "Data Exploitation and Modeling for the Upper Troposphere and Lower Stratosphere", Coordinator S. Buehler, 2002–2006.
4. EC FP6 Integrated Project "Stratosphere-Climatic Links with Emphasis On The UTLS (SCOUT-O3)", Coordinator N. Harris, UCAM, UK, 2004–2009.
5. EC FP6 integrated Project "Global and regional Earth-system Monitoring using Satellite and in-situ data (GEMS)", Coordinators T. Hollingsworth and A. Simmons, ECMWF, UK, 2005–2009.
6. EC FP6 Integrated Project "Quantifying the Climate Impact of Global and European Transport Systems (QUANTIFY)", Coordinator R. Sausen, DLR-IPA, Germany, 2005–2010.
7. EC FP6 Network of Excellence "Environmental Compatible Air Transport System (ECATS)", Coordinator S. Matthes, DLR-IPA, Germany, 2005–2010.
8. EC FP6 Integrated Project "Global Earth Observation and Monitoring (GEOMON)", Coordinator P. Ciais, CEA, France, 2007–2011.
9. EC FP6 Project "Air Quality Monitoring and Forecasting in China (AMFIC)", Coordinator R. van der A, KNMI, The Netherlands, 2007–2009.
10. EC FP7 Collaborative Project "Monitoring Atmospheric Composition and Climate (MACC)", Coordinator A. Simmons, ECMWF, UK, 2009–2011.
11. EC FP7 Project "Data repositories and Computational Infrastructure for Environmental and Climate Studies in the Eastern Mediterranean (DARECLIMED)", Coordinator M. Lange, Cyl, Cyprus, 2011–2013.

12. Cost Action ES1207 "A European Brewer Network", Member of the Management Committee, Coordinator J. Rimmer, University of Manchester, UK, 2013–2017.
13. EUMETSAT Project "Satellite Application Facility for Atmospheric Composition and UV Radiation (O3M SAF), Coordinator S. Hassinen, FMI, Finland, 2013–2017.
14. EU Horizon 2020 Research and Innovation Programme "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 (GEO-CRADLE)", Coordinator H. Kontoes, NOA, Greece, 2016–2018.
15. EUMETSAT Project "Satellite Application Facility on Atmospheric Composition Monitoring (AC SAF), Coordinator S. Hassinen, FMI, Finland, 2017–.

National projects and networks

1. "National network for the measurement of ultraviolet solar radiation (UVNET)", Project of GSRT, Coordinator A. Bais, AUTH, Greece, 2003–2006.
2. "Natural variations of cirrus clouds on global scale", Project of UoA-SARG KAPODISTRIAS, Coordinator C. Zerefos, NKUA, Greece, 2004–2005.
3. "Natural and anthropogenic variations of cirrus cloud cover and their effects on the atmospheric environment", Project of GSRT PENED 2003, Coordinator C. Zerefos, NKUA, Greece, 2005–2008.
4. "Natural variations of cirrus clouds on global scale", Project of UoA-SARG KAPODISTRIAS, Coordinator C. Zerefos, NKUA, Greece, 2006–2007.
5. "Natural variations of cirrus clouds on global scale", Project of UoA-SARG KAPODISTRIAS, Coordinator C. Zerefos, NKUA, Greece, 2008–2009.
6. "National Network for Solar Energy (helionet)", Project of GSRT, Coordinator A. Bais, AUTH, Greece, 2011–2013.
7. "Climate change impacts on the touristic development of sensitive areas in Greece. Pilot study: Messinia – Area of integrated tourist development (XENIOS)", Project of GSRT, Coordinator C. Zerefos, NKUA, Greece, 2011–2013.
8. "Study of climatic trends as measured from ground and satellite observations and as calculated from numerical models", Project of the Academy of Athens, Coordinator C. Zerefos, Academy of Athens, Greece, 2015–2016.
9. "Panhellenic infrastructure for atmospheric composition and climate change (PANACEA)", Ministry of Economy and Development (Operational Programme Competitiveness, Entrepreneurship and Innovation – EPAnEK 2014-2020), Coordinator N. Mihalopoulos, University of Crete, Greece, 2018–2021.

Participation in conference organisation

1. Colloquium entitled "Environment and Health", Foundation for Biomedical Research of the Academy of Athens, Athens, Greece, 22 October 2003.
2. Colloquium entitled "Monitoring of Global Change in high latitudes", organised by the National IGBP Committee of the Academy of Athens and the Mariolopoulos-Kanaginis Foundation for the Environmental Sciences, National Hellenic Research Foundation, Athens, Greece, 30 March 2004.
3. 20th Quadrennial Ozone Symposium, QOS2004, Kos, Greece, 1–8 June 2004.

4. Workshop on Implementation of IGACO-Ozone, Anavyssos, Greece, 15–17 May 2006.
5. Colloquium entitled “Climate Change”, organised by the National IGBP Committee of the Academy of Athens and the Mariolopoulos-Kanaginis Foundation for the Environmental Sciences, Foundation for Biomedical Research of the Academy of Athens, Athens, Greece, 15 June 2006.
6. QUANTIFY Summer School on Transport, Ozone, and Climate Change, Acropolis Hotel, Athens, Greece, 10–26 September 2007.
7. Symposium on the occasion of the 20th anniversary of the Montreal Protocol entitled “Ozone depletion: from its discovery to Envisat and Aura”, Athens, Greece, 23–26 September 2007.

Research expeditions and grants

1. Short-term scientific mission entitled “Upper-Tropospheric Humidity: Climatology and Trends”, COST Action 723, DLR-IPA, Oberpfaffenhofen, Germany, 4–15 October 2004.
2. Attendance of the QUANTIFY Summer School on Transport, Ozone, and Climate Change, Acropolis Hotel, Athens, Greece, 10–26 September 2007.
3. Research stay at the Department of Geosciences of the University of Oslo with the objective to compare total ozone from Oslo CTM model with ground-based and satellite data, funded by the University of Oslo (Prof. Ivar Isaksen), Oslo, Norway, December 2008.
4. DAAD grant for research stay at the Department of Earth System Modelling of DLR-IPA, subject: “30 Years of HIRS data on upper tropospheric humidity: Are there trends in ice super-saturation?”, DLR-IPA, Oberpfaffenhofen, Germany, 3 June – 2 August 2013.
5. Research stay at the Department of Earth System Modelling of DLR-IPA with the objective to evaluate HIRS satellite data in co-operation with Dr. Gierens, funded by DLR, Oberpfaffenhofen, Germany, 3 July – 6 August 2015.
6. DAAD grant for research stay at the Department of Earth System Modelling of DLR-IPA, subject: “Upper tropospheric humidity and cirrus clouds in the past 35 years”, DLR-IPA, Oberpfaffenhofen, Germany, 1 November 2018 – 31 January 2019.

Activities as reviewer

- Annales Geophysicae
- Atmosphere
- Atmospheric Chemistry and Physics
- Atmospheric Measurement Techniques
- Environmental Research Letters
- Geophysical Research Letters
- International Journal of Climatology
- International Journal of Environmental Research and Public Health
- International Journal of Remote Sensing
- Journal of Applied Meteorology and Climatology
- Journal of the Atmospheric Sciences
- Journal of Geophysical Research: Atmospheres
- National Geographic Society
- Remote Sensing

- Science of the Total Environment
- Theoretical and Applied Climatology

Member

Hellenic Meteorological Society (since 2012)

Computer skills

MsDos, Windows, Microsoft Office, Grapher, Surfer, Origin, FORTRAN, R-project, GrADS, Basic, Adobe Photoshop, CorelDraw.

Teaching

Undergraduate programme (Department of Geology and Geoenvironment, NKUA)

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| 2007 – 2008 | Co-teaching of the courses "Applied Climatology" and "Atmospheric Physics". |
| 2009 | Co-teaching of the course "Renewable Energy Sources". |
| 2010 – 2014 | Full teaching of the courses "Atmospheric Physics" and "Atmospheric Pollution". Co-teaching of the laboratory exercises of the courses "Atmospheric Physics", "Applied Climatology" and "Renewable Energy Sources". |
| 2014 – | Co-teaching of the course "Applied Climatology – Atmospheric Pollution – Paleoclimatology". Co-teaching of the laboratory exercises of the courses "Applied Climatology – Atmospheric Pollution – Paleoclimatology" and "Renewable Energy Sources: Solar and Wind Energy – Geothermal Energy". |
| 2015 – | Co-teaching of the laboratory exercises of the course "Climatology – Climate Change". |

Postgraduate specialization programme entitled "Geography and Environment" (Department of Geology and Geoenvironment, NKUA)

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| 2014 – 2015 | Co-teaching of the course "Atmospheric, Geomorphological and Oceanographic Processes in the Geoenvironment". |
| 2014 – 2018 | Co-teaching of the course "Methods of Analysis of Geographical and Environmental Data – Field Exercises". |
| 2015 – 2018 | Co-teaching of the course "Methods of Applied Research in Geosciences". |
| 2016 – 2018 | Co-teaching of the courses "Field Exercises – Cartography" and "Impact and Adaptation to Climate Change". |

Postgraduate specialization programme entitled "Earth Sciences and the Environment" (Department of Geology and Geoenvironment, NKUA)

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| 2018 – | Co-teaching of the course "Methods of Applied Research in Geosciences – Methods of Environmental Data Analysis". |
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Supervision of undergraduate theses (Department of Geology and Geoenvironment, NKUA)

1. "Climate change and cardiovascular problems in Greece" [Κλιματικές μεταβολές και καρδιοαναπνευστικά προβλήματα στην Ελλάδα], Undergraduate thesis of Eleni Tzatha, 2014 (under preparation in Greek).
2. "Study of total ozone column over Athens by a Brewer spectrophotometer" [Μελέτη της ολικής στήλης του όζοντος στην Αθήνα από το φασματοφωτόμετρο τύπου Brewer], Undergraduate thesis of Panagiotis Varotsos, 20 p., 2015 (in English).
3. "Environmental effects and maintenance of the photovoltaic plant installed at 'Seli or Ekso Latsidi', rural area Sitanos, Municipality of Sitia, Lasitihí" [Μελέτη περιβαλλοντικών επιπτώσεων και συντήρηση φωτοβολταϊκού σταθμού στη θέση 'Σέλι ή Έξω Λατσιδί', κτηματική περιφέρεια Σιτάνου, Δήμου Σητείας, Νομού Λασιθίου], Undergraduate thesis of Maria-Nikoleta Papoutsis, 111 p., 2017 (in Greek).
4. "Effects of the 11-year solar cycle on upper tropospheric humidity" [Η επίδραση του 11-ετούς ηλιακού κύκλου στην υγρασία της ανώτερης ατμόσφαιρας], Undergraduate thesis of Harilaos Benetatos, 81 p., 2018 (in Greek).
5. "Effects of North Atlantic Oscillation on upper tropospheric humidity" [Η επίδραση της κύμανσης του Βορείου Ατλαντικού στην υγρασία της ανώτερης ατμόσφαιρας], Undergraduate thesis of Marita Koursarou, 2018 (under preparation in Greek).

Co-supervision of undergraduate theses (Department of Geology and Geoenvironment, NKUA)

1. "Study of environmental parameters in the greater area of Athens" [Μελέτη περιβαλλοντικών παραμέτρων στο λεκανοπέδιο της Αττικής], Undergraduate thesis of Ifigenia Gavriel and Panagiotis Zoris, supervisor Professor-Academician C. Zerefos, co-supervision K. Eleftheratos, 88 p., 2007 (in Greek).
2. "Total sulfur dioxide (SO₂) column in the greater area of Athens" [Συνολικός φόρτος διοξειδίου του Θείου (SO₂) στο λεκανοπέδιο της Αττικής], Undergraduate thesis of Dafni Sifnioti, supervisor Professor-Academician C. Zerefos, co-supervision K. Eleftheratos, 81 p., 2007 (in Greek).

Committee member of doctoral theses

1. "Investigation of atmospheric ozone with remote sensing spectroscopy" [Μελέτη του ατμοσφαιρικού όζοντος με τη χρήση μεθόδων φασματοφωτομετρικής τηλεπισκόπησης], Doctoral thesis of Konstantinos Fragkos, Committee members: Alkiviadis Bais (supervisor), C. Meleti, K. Tourpali, D. Melas, D. Balis, P. Zanis, K. Eleftheratos, Department of Physics, Aristotle University of Thessaloniki, <http://hdl.handle.net/10442/hedi/35363>, 154 p., 2015 (in English).
2. "Long term trends of the spectral solar UV radiation" [Μακροχρόνιες τάσεις του φάσματος της υπεριώδους ηλιακής ακτινοβολίας], Doctoral thesis of Ilias Fountoulakis, Committee members: Alkiviadis Bais (supervisor), K. Tourpali, C. Meleti, D. Melas, D. Balis, A. Kazantzidis, K. Eleftheratos, Department of Physics, Aristotle University of Thessaloniki, <http://hdl.handle.net/10442/hedi/39755>, 196 p., 2016 (in English).

A. Journal publications

- A1. Zerefos, C. S., **Eleftheratos, K.**, Balis, D. S., Zanis, P., Tselioudis, G., and Meleti, C.: Evidence of impact of aviation on cirrus cloud formation, *Atmospheric Chemistry and Physics*, 3, 1633–1644, 2003.
- A2. Zerefos, C. S., Nastos, P., Balis, D., Papayiannis, A., Kelepertsis, A., Kanellopoulou, E., Nikolakis, D., **Eleftheratos, C.**, Thomas, W., and Varotsos, C.: A complex study of Etna's volcanic plum from ground-based, in-situ and space-borne observations, *International Journal of Remote Sensing*, Vol. 27, No. 9, 1855–1864, 2006.
- A3. **Eleftheratos, K.**, Zerefos, C. S., Zanis, P., Balis, D. S., Tselioudis, G., Gierens, K., and Sausen, R.: A study on natural and manmade global interannual fluctuations of cirrus cloud cover for the period 1984–2004, *Atmospheric Chemistry and Physics*, 7, 2631–2642, 2007.
- A4. Zerefos, C. S., Gerasopoulos, E., Tzagouri, I., Psiloglou, B., Belehaki, A., Herekakis, T., Bais, A., Kazadzis, S., **Eleftheratos, C.**, Kalivitis, N., and Mihalopoulos, N.: Evidence of gravity waves into the atmosphere during the March 2006 total solar eclipse, *Atmospheric Chemistry and Physics*, 7, 4943–4951, 2007.
- A5. Zerefos, C. S., **Eleftheratos, K.**, Zanis, P., Balis, D. S., and Tselioudis, G.: Search for man-made cirrus contrails over Southeast Asia, *Terrestrial Atmospheric and Oceanic Sciences*, Vol. 18, No. 3, 459–474, doi: 10.3319/TAO.2007.18.3.459(EA), 2007.
- A6. Gierens, K., Lim, L., and **Eleftheratos, K.**: A review on various strategies for contrail avoidance, *The Open Atmospheric Science Journal*, 2, 1–7, 2008.
- A7. Kazantzidis, A., Bais, A. F., Zempila, M. M., Meleti, C., **Eleftheratos, K.**, and Zerefos, C.: Evaluation of ozone column measurements over Greece with NILU–UV multi-channel radiometers, *International Journal of Remote Sensing*, Vol. 30, Nos. 15–16, 4273–4281, doi: 10.1080/01431160902825073, 2009.
- A8. Zerefos, C. S., **Eleftheratos, K.**, Meleti, C., Kazadzis, S., Romanou, A., Ichoku, C., Tselioudis, G., and Bais, A.: Solar dimming and brightening over Thessaloniki, Greece, and Beijing, China, *Tellus*, 61B, 657–665, doi: 10.1111/j.1600-0889.2009.00425.x, 2009.
- A9. Gerasopoulos, E., Kokkalis, P., Amiridis, V., Liakakou, E., Perez, C., Haustein, K., **Eleftheratos, K.**, Andreae, M. O., Andreae, T. W., and Zerefos, C. S.: Dust specific extinction cross-sections over the Eastern Mediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments, *Annales Geophysicae*, 27, 2903–2912, 2009.
- A10. **Eleftheratos, K.**, Tselioudis, G., Zerefos, C. S., Nastos, P., Douvis, C., and Kapsomenakis, I.: Observed and predicted climate changes in Uruguay and adjacent areas, *Hellenic Journal of Geosciences*, vol. 45, 83–90, 2010.
- A11. **Eleftheratos, K.**, Zerefos, C. S., Gerasopoulos, E., Isaksen, I. S. A., Rognerud, B., Dalsøren, S., and Varotsos, C.: A note on the comparison between total ozone from Oslo CTM2 and SBUV satellite data, *International Journal of Remote Sensing*, Volume 32, Issue 9, 2535–2545, 2011.
- A12. Nastos, P. T., Philandras, C. M., Kapsomenakis, J., and **Eleftheratos, K.**: Variability and trends of mean maximum and mean minimum air temperature in Greece from ground-based observations and NCEP–NCAR reanalysis gridded data, *International Journal of Remote Sensing*, Volume 32, Issue 21, 6177–6192, 2011.
- A13. **Eleftheratos, K.**, Zerefos, C. S., Varotsos, C., and Kapsomenakis, I.: Interannual variability of cirrus clouds in the tropics in El Niño Southern Oscillation (ENSO) regions based on

- International Satellite Cloud Climatology Project (ISCCP) satellite data, *International Journal of Remote Sensing*, Volume 32, Issue 21, 6395–6405, 2011.
- A14. Gerasopoulos, E., Amiridis, V., Kazadzis, S., Kokkalis, P., **Eleftheratos, K.**, Andreae, M. O., Andreae, T. W., El-Askary, H., and Zerefos, C. S.: Three-year ground based measurements of aerosol optical depth over the Eastern Mediterranean: the urban environment of Athens, *Atmospheric Chemistry and Physics*, 11, 2145–2159, 2011.
- A15. Kazantzidis, A., **Eleftheratos, K.**, Zerefos, C. S.: Effects of cirrus cloudiness on solar irradiance in four spectral bands, *Atmospheric Research*, Volume 102, Issue 4, 452–459, 2011.
- A16. Balis, D., Isaksen, I. S. A., Zerefos, C., Zyrichidou, I., **Eleftheratos, K.**, Tourpali, K., Bojkov, R., Rognerud, B., Stordal, F., Sødve, O. A., and Orsolini, Y.: Observed and modelled record ozone decline over the Arctic during winter/spring 2011, *Geophysical Research Letters*, 38, L23801, doi: 10.1029/2011GL049259, 2011.
- A17. Amiridis, V., Zerefos, C., Kazadzis, S., Gerasopoulos, E., **Eleftheratos, K.**, Vrekoussis, M., Stohl, A., Mamouri, R. E., Kokkalis, P., Papayannis, A., Eleftheriadis, K., Diapouli, E., Keramitsoglou, I., Kontoes, C., Kotroni, V., Lagouvardos, K., Marinou, E., Giannakaki, E., Kostopoulou, E., Giannakopoulos, C., Richter, A., Burrows, J. P., and Mihalopoulos, N.: Impact of the 2009 Attica wild fires on the air quality in urban Athens, *Atmospheric Environment*, 46, 536–544, 2012.
- A18. Zerefos, C. S., Tourpali, K., **Eleftheratos, K.**, Kazadzis, S., Meleti, C., Feister, U., Koskela, T., and Heikkila, A.: Evidence of a possible turning point in solar UV-B over Canada, Europe and Japan, *Atmospheric Chemistry and Physics*, 12, 2469–2477, doi: 10.5194/acp-12-2469-2012, 2012.
- A19. Isaksen, I. S. A., Zerefos, C., Wang, W.-C., Balis, D., **Eleftheratos, K.**, Rognerud, B., Stordal, F., Berntsen, T. K., LaCasce, J. H., Sødve, O. A., Olivié, D., Orsolini, Y. J., Zyrichidou, I., Prather, M., and Tuinder, O. N. E.: Attribution of Arctic ozone loss in March 2011, *Geophysical Research Letters*, Vol. 39, L24810, doi: 10.1029/2012GL053876, 2012.
- A20. **Eleftheratos, K.**, Isaksen, I., Zerefos, C., Nastos, P., Tourpali, K., and Rognerud, B.: Ozone variations derived by a chemical transport model, *Water, Air and Soil Pollution*, 224:1585, doi: 10.1007/s11270-013-1585-2, 2013.
- A21. Zerefos, C. S., Tetsis, P., Kazantzidis, A., Amiridis, V., Zerefos, S. C., Luterbacher, J., **Eleftheratos, K.**, Gerasopoulos, E., Kazadzis, S., and Papayannis, A.: Further evidence of important environmental information content in red-to-green ratios as depicted in paintings by great masters, *Atmospheric Chemistry and Physics*, 14, 2987–3015, doi: 10.5194/acp-14-2987-2014, 2014.
- A22. Gierens, K., **Eleftheratos, K.**, and Shi, L.: Technical note: 30 years of HIRS data of upper tropospheric humidity, *Atmospheric Chemistry and Physics*, 14, 7533–7541, doi: 10.5194/acp-14-7533-2014, 2014.
- A23. Isaksen, I. S. A., Berntsen, T. K., Dalsøren, S. B., **Eleftheratos, K.**, Orsolini, Y., Rognerud, B., Stordal, F., Sødve, O. A., Zerefos, C., and Holmes, C. D.: Atmospheric ozone and methane in a changing climate, *Atmosphere*, 5, 518–535, doi: 10.3390/atmos5030518, 2014.
- A24. Zerefos, C. S., Tourpali, K., Zanis, P., **Eleftheratos, K.**, Repapis, C., Goodman, A., Wuebbles, D., Isaksen, I. S. A., and Luterbacher, J.: Evidence for an earlier greenhouse cooling effect in the stratosphere before 1980 over the Northern Hemisphere, *Atmospheric Chemistry and Physics*, 14, 7705–7720, doi: 10.5194/acp-14-7705-2014, 2014.

- A25. **Eleftheratos, K.**, Kazadzis, S., Zerefos, C., Tourpali, K., Meleti, C., Balis, D., Zyrichidou, I., Lakkala, K., Feister, U., Koskela, T., Heikkilä, A., and Karhu, J. M.: Ozone and spectroradiometric UV changes in the past 20 years over high latitudes, *Atmosphere-Ocean*, 53, 117-125, doi: 10.1080/07055900.2014.919897, 2015.
- A26. Raptis, P., Kazadzis, S., **Eleftheratos, K.**, Kosmopoulos, P., Amiridis, V., Helmis, C., and Zerefos, C.: Total ozone column measurements using an ultraviolet multifilter radiometer, *International Journal of Remote Sensing*, 36(17), 4469–4482, doi: 10.1080/01431161.2015.1083631, 2015.
- A27. Hassinen, S., Balis, D., Bauer, H., Begoin, M., Delcloo, A., **Eleftheratos, K.**, Gimeno Garcia, S., Granville, J., Grossi, M., Hao, N., Hedelt, P., Hendrick, F., Hess, M., Heue, K.-P., Hovila, J., Jørnch-Sørensen, H., Kalakoski, N., Kauppi, A., Kiemle, S., Kins, L., Koukouli, M. E., Kujanpää, J., Lambert, J.-C., Lang, R., Lerot, C., Loyola, D., Pedernana, M., Pinardi, G., Romahn, F., van Roozendaal, M., Lutz, R., De Smedt, I., Stammes, P., Steinbrecht, W., Tamminen, J., Theys, N., Tilstra, L. G., Tuinder, O. N. E., Valks, P., Zerefos, C., Zimmer, W., and Zyrichidou, I.: Overview of the O3M SAF GOME-2 operational atmospheric composition and UV radiation data products and data availability, *Atmospheric Measurement Techniques*, 9, 383-407, doi: 10.5194/amt-9-383-2016, 2016.
- A28. Gierens, K., and **Eleftheratos, K.**: Upper tropospheric humidity changes under constant relative humidity, *Atmospheric Chemistry and Physics*, 16, 4159-4169, doi: 10.5194/acp-16-4159-2016, 2016.
- A29. Diémoz, H., **Eleftheratos, K.**, Kazadzis, S., Amiridis, V., and Zerefos, C. S.: Retrieval of aerosol optical depth in the visible range with a Brewer spectrophotometer in Athens, *Atmospheric Measurement Techniques*, 9, 1871-1888, doi: 10.5194/amt-9-1871-2016, 2016.
- A30. Zerefos, C. S., **Eleftheratos, K.**, Kapsomenakis, J., Solomos, S., Inness, A., Balis, D., Redondas, A., Eskes, H., Allaart, M., Amiridis, V., Dahlback, A., De Bock, V., Diémoz, H., Engelmann, R., Eriksen, P., Fioletov, V., Gröbner, J., Heikkilä, A., Petropavlovskikh, I., Jarosławski, J., Josefsson, W., Karppinen, T., Köhler, U., Meleti, C., Repapis, C., Rimmer, J., Savinykh, V., Shirov, V., Siani, A. M., Smedley, A. R. D., Stanek, M., and Stübi, R.: Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations, *Atmospheric Chemistry and Physics*, 17, 551-574, doi: 10.5194/acp-17-551-2017, 2017.
- A31. Gierens, K., and **Eleftheratos, K.**: Technical note: On the intercalibration of HIRS channel 12 brightness temperatures following the transition from HIRS 2 to HIRS 3/4 for ice saturation studies, *Atmospheric Measurement Techniques*, 10, 681-693, doi: 10.5194/amt-10-681-2017, 2017.
- A32. Gierens, K., **Eleftheratos, K.**, and Sausen, R.: Intercalibration between HIRS/2 and HIRS/3 channel 12 based on physical considerations, *Atmospheric Measurement Techniques*, 11, 939-948, <https://doi.org/10.5194/amt-11-939-2018>, 2018.
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- D57. Zyrichidou, I., Balis, D., Tourpali, K., **Eleftheratos, K.**, Zerefos, C., and van der A., R.: Monitoring of long-term total ozone characteristics from space at the Northern polar and middle latitudes for the winter-spring period 1979-2018, 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2018), Alexandroupolis, Greece, 15–17 October 2018, Paper number 157, 2018.
- D58. Zerefos, C., Kapsomenakis, J. N., **Eleftheratos, K.**, Haslerud, A. S., Petropavlovskikh, I. V., and Frith, S. M.: Vertical structure of ozone trends based on Oslo CTM3 runs, lidar and SBUV data (dedicated to the memory of Ivar Isaksen), AGU 2018 Fall Meeting, 10–14 December 2018, Washington, D.C, Session Number and Title: A34C: Atmospheric Trace Species Profiles from Long-Term and Campaign Sampling: Observations from Ground, Balloons, and Aircraft III, Abstract ID: 444449, Paper Number: A34C-01, 2018.
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E. Other announcements

In English

- E1. Zerefos, C. S., Balis, D., Bais, A., Meleti, C., Zanis, P., **Eleftheratos, K.**, and Nastos, P.: Collaborative studies in monitoring of environmental parameters from satellite and ground-based observations, ESA Technical Group visit to Greece, Faculty of Geology and Geoenvironment, NKUA, 1–5 December 2003.
- E2. **Eleftheratos, K.**: Brief introduction of the activities of participant NKUA, ECATS Internal Technical Workshop “Aeroengine Emissions, Plume Processes, and Contrail Cirrus”, NTUA, Athens, Greece, 7–8 November 2005.
- E3. **Eleftheratos, K.**: Total ozone measurements and UV forecast over Athens, QUANTIFY Summer School on Transport, Ozone and Climate Change, Acropolis Hotel, Athens, Greece, 10–26 September 2007.
- E4. Zerefos, C. S., Tselioudis, G., and **Eleftheratos, K.**: Observed and predicted climate changes in Uruguay and adjacent areas, Report for “Maria Tsakos” Foundation in Uruguay, Research Centre for Atmospheric Physics and Climatology, Athens, Greece, 24 pages, May 2009.
- E5. **Eleftheratos, K.**: Long-term observations of high clouds and potential aviation impacts, Invited lecture in the frame of the ECATS Autumn School on Global Aviation Impact and Green Flight, Invitation by Prof. David Lee, La-Londe-Des-Maures, South France, 19-23 October 2009.
- E6. **Eleftheratos, K.**, Gierens, K., and Shi, L.: Towards an upper tropospheric humidity dataset from 30 years of inter-calibrated HIRS satellite data, Seminar at Department of Earth System Modelling of DLR-IPA, Oberpfaffenhofen, Germany, 31 July 2013.
- E7. **Eleftheratos, K.**, and Gierens, K.: Variability and trends in upper tropospheric humidity, Seminar at Department of Earth System Modelling of DLR-IPA, Oberpfaffenhofen, Germany, 15 July 2015.
- E8. **Eleftheratos, K.**: Certainties and uncertainties in long-term ozone variability, Invited talk in the_DLR-IPA Institute seminar, recommendation by Dr. Klaus Gierens and Prof. Markus Rapp, DLR-IPA, Oberpfaffenhofen, Germany, 10 December 2018.

In Greek

- E9. Ζερεφός, Χ., και **Ελευθεράτος, Κ.**: Εργαστήριο Ατμοσφαιρικού Περιβάλλοντος του Κέντρου Περιβαλλοντικής Υγιεινής του Ιδρύματος Ιατροβιολογικών Ερευνών της Ακαδημίας Αθηνών, Τριμηνιαίο Δελτίο του Ιδρύματος Ιατροβιολογικών Ερευνών της Ακαδημίας Αθηνών με τίτλο «Bio Academy», Τεύχος 1^ο, σελ. 10–13, Οκτώβριος–Δεκέμβριος 2007.
- E10. **Ελευθεράτος, Κ.**: Επιπτώσεις των διεθνών αεροπορικών πτήσεων στο φαινόμενο του θερμοκηπίου, Προσκεκλημένος ομιλητής στην Επιστημονική ημερίδα του Ελληνικού Ινστιτούτου Αεροναυτικής & Αστροναυτικής (ΕΛ.ΙΝ.Α.ΑΣ) με θέμα «Αεροπορικές

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- E11. Ζερεφός, Χ., και **Ελευθεράτος, Κ.**: Χρονολόγιο Όζοντος, Στο: Βόρειος και Νότιος Πόλος: Ταξίδι στα άκρα της Γης», Συλλεκτικό λεύκωμα της εφημερίδας Ελευθεροτυπία, σελ. 135–144, 20 Δεκεμβρίου 2008.

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