PERSONAL INFORMATION

Ilias Fountoulakis

79 Vasilissis Sofias str., 11521, Athens, Greece

+30 210 8832048 (int. 27)

ifountoulakis@Academyofathens.gr

Sex male | Date of birth 11/07/1981 | Nationalities Greek, American

Married with two children

SUMMARY

Ilias Fountoulakis (IF) studied physics at the Faculty of Science of the Aristotle University of Thessaloniki (AUTH), Greece, and got his BA degree in 2008. In 2011 he got his MSc degree in environmental physics from the same department. He got his PhD diploma in atmospheric physics in 2016 at the Laboratory of Atmospheric Physics of the same university (LAP-AUTH).

His main scientific interests are:

- Solar UV radiation and stratospheric ozone
- Solar radiation and solar energy
- Ground- and satellite-based remote sensing of the atmospheric composition
- Aerosol radiative effects

From 2010 to 2017 IF worked as a researcher (as a post-graduate student in 2010 – 2011, PhD student in 2012 – 2016, post-doctoral researcher in 2017) at LAP-AUTH. His research at LAP-AUTH was mainly focused on the measurements and the climatological analysis of the levels of surface solar ultraviolet (UV) radiation and the atmospheric parameters that are mainly affecting it (i.e., stratospheric ozone, aerosols, and clouds). For a short time (September – December 2017) he worked for the Atmospheric Observatory of Izaña, Tenerife, Spain and contributed to the writing of the online documentation of the European Brewer Network (EUBREWNET).

From 2018 to 2020 IF worked as a researcher for the Regional Agency for the Protection of Environment of the Aosta Valley, Italy (ARPA VdA). At ARPA VdA he successfuly setted up and initialized a new optical laboratory while his research was again mainly focused on the measurements and the climatological analysis of the levels of surface solar UV radiation. In 2018 – 2019 IF also kept collaborating closelly with LAP-AUTH contributing to research relative to the retrieval and the climatological analysis of the aerosol optical properties in the UV.

From 2020 to 2024, IF was a research associate for the Institute of Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS) of the National Observatory of Athens (NOA) where his research was mainly focused on the measurements, modelling and climatological analysis of solar radiation and energy over Europe and the broader region of Eastern Meditteranean.

Since January 2023 IF is an assistant researcher at the Research Centre for Atmospheric Physics and Climatology of the Academy of Athens (KEFAK), Greece.

At KEFAK his research is focused on solar UV radiation and stratospheric ozone, aerosol optical properties and radiative effects, solar radiation and solar energy, and the monitoring of atmospheric and soil parameters for climate change adaptation.

In 2017 IF was co-organizing and teaching one course relative to computational methods for environmental sciences in the postgraduate program "Environmental Physics" of the AUTH. In October 2021 – September 2022 IF was a teaching fellow at the Department of Environmental Engineering of the University of Patras, Greece, teaching courses relative to atmospheric physics, air pollution and global climate. Currently he is a member of the three-member supervising committee of two doctoral theses (supervisor in one of the two theses). Since January 2024 IF is a member of the Academic committee of the interdisciplinary post-graduate program "Protection of Cultural Heritage and Monuments of Nature from the Effects of Climate Change" of the Hellenic Open University.

IF (Scopus author ID: 56568211800) has co-authored 52 papers (leading author at 14) published in peer-reviewed scientific journals which have received at least 980 citations (h index = 21). At least five of the papers are published to journals with an impact factor larger than 10. He has co-authored more than 170 abstracts published in the proceedings of national and international conferences.

Since 2010 IF has participated in 25 national and international research projects. He has also participated in field campaigns (related to measurements of spectral solar UV irradiance and/or columnar ozone), international summer schools, and two short term scientific missions. He has been an active reviewer for more than 35 scientific journals.

WORK EXPERIENCE

01/2023 – present
Assistant (grade C) Researcher

Organization
Research Centre for Atmospheric Physics and Climatology, Academy of Athens, Greece

Main duties
- Investigate the variability in solar UV radiation and stratospheric ozone
- Investigate the variability in solar radiation and solar energy
- Study aerosol optical properties and aerosol radiative effects
- Monitoring of atmospheric and soil parameters for climate change adaptation

11/2020 – 12/2024
Research associate

Organization
Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens, Greece

Main duties
- Climatological analysis of the levels of UV and total solar radiation and solar energy over Europe and the broader region of Eastern Meditteranean.
- Forecasting of solar radiation and energy with the use of Earth observation datasets
- Radiative transfer modelling for solar energy applications

10/2021 – 09/2022
Teaching fellow

Organization
Department of Environmental Engineering, University of Patras, Agrinio, Greece

Main duties
- Teaching pre-graduate courses relative to Atmospheric Physics, Air Pollution, and Global Climate

01/2018 – 11/2020
Post doctoral research associate

Organization
Regional Environmental Protection Agency (ARPA) Valle d' Aosta, Saint Christophe, Aosta, Italy

Main duties
- Investigate the variability in UV radiation over Italy with respect to the variability in local meteorological and climatic conditions, stratospheric ozone and air quality.
- Setup and initialisation of a new optical laboratory
- Calibration and characterization of a Bentham spectroradiotometer for solar UV and visible (VIS) radiation monitoring
- QA/QC of spectral and broad-band radiometric measurements in the UV and VIS regions
- Software development for data analysis and storage (using mainly Python and MATLAB)

09/2017 – 12/2017
Post doctoral research associate

Organization
Izaña Atmospheric Observatory, Canary Islands, Tenerife, Spain

Main duties
- Documentation of the EUBREWNET database
- Development of scientific software for the EUBREWNET database

01/2017 – 09/2019
Post doctoral research associate

Organization
Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Greece

Main duties
- Climatological analysis of aerosol optical properties in UV and VIS over Thessaloniki, Greece
- Maintenance and calibration of spectrophotometers, and broad-band radiometers for the monitoring of solar radiation and atmospheric composition.
- Optimization of algorithms for the retrieval of aerosol optical properties in the UV.

01/2012 – 11/2016
PhD student/Research associate

Organization
Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Greece

- Climatological study of spectral solar UV radiation and biologically effective UV doses on regional

Main duties and global scale using ground-based measurements, projections from global climate models, and radiative transfer model simulations.
- Calibration and maintenance of two Brewer spectroradiometers
- QA/QC of measurements of the solar UV irradiance and the columnar ozone
- Contribution to the validation of satellite products such as total ozone and solar UV irradiance.
- Contribution to the installation, calibration and maintenance of pyranometers and radiometers in a number of stations of the UVNET (national UV monitoring network of Greece) and EDHE (Hellenic Network of Solar Energy) networks

04/2010 – 12/2011 **Postgraduate research assistant**

Organization **Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece**

Main duties
- Calibration and maintenance of the the two Brewer spectroradiometers operating at LAP-AUTH
- QA/QC of global and direct spectral UV measurements from Brewer spectroradiometers.
- Contribution to the installation, calibration and maintenance of pyranometers and radiometers in a number of stations of the UVNET and EDHE networks

EDUCATION

01/2012 – 01/2017 **PhD in Physics (Atmospheric Physics)** EQF level 8

Institute Aristotle University of Thessaloniki (Greece)

Subject Long term trends of the spectral solar UV irradiance

Grade 100%

09/2009 – 10/2011 **MSc in Environmental Physics** EQF level 6

Institute Aristotle University of Thessaloniki (Greece)

Grade 96.0%

09/2001 – 07/2008 **BA in Physics** EQF level 5

Institute Aristotle University of Thessaloniki (Greece)

Grade 78.4%

LANGUAGES

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	First Certificate in English by the University of Cambridge				
Italian	A2	A2	A2	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

PUBLICATIONS

Publications in peer reviewed journals

IF has co-authored **52** scientific papers published in peer-reviewed journals. He is the leading author of **14**. A detailed list of publications is provided in annex I.

Presentations in conferences

IF has co-authored **36** papers and **138** abstracts published in the proceedings of national and international conferences. Detailed lists of the conference papers and presentations are provided in annexes II and III respectively.

Invited talks

- **Fountoulakis I.**, «Decoding the sunset», café-NEO co-organized by the University of Patras and the Navarino Environmental Observatory, Patras, 25 May 2026
- **Fountoulakis I.**, «Decoding the solar spectrum using models and measurements», Career Days of the MSc Program «Environmental Physics and Global Climate Cjhange» of the Physics department of Aristotle University of Thessaloniki, 20 May 2026
- **Fountoulakis I.**, UV climatologies, Harmonia-COST WG3 meeting, Limassol, Cyprus,16-17 June 2025
- **Fountoulakis I.**, Investigating the radiative effects of dust over the Mediterranean Basin in the context of the "Sky over Berlin" Harmonia school, Harmonia MC/WG meeting, Sarajevo**,** Bosnia and Herzegovina, 25-26 February 2025
- **Fountoulakis I.**, Measurements and simulations of solar radiation: Research applications for climate, energy, and health, Research Seminars of the Physics Department of the University of Patras, 26.11.2024
- **Fountoulakis I.**, Long-term variability of human health-related solar ultraviolet-B radiation doses from the 1980s to the end of the 21st century, IAMAS Early Career Scientist webinars, 30.11.2023
- **Fountoulakis I.**, and H. Diémoz: Monitoring of spectral UV irradiance in Aosta, Saint-Christophe, Italy: from measurements to data analysis. VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019

Theses

- **I. Fountoulakis**: "Long term trends of the spectral solar UV radiation" PhD Thesis, University of Thessaloniki, Physics Department, (2016)
- **I. Fountoulakis**: "Evaluation of the operation and the optical characteristics of the spectrophotometer Brewer with serial number 86" MSc Thesis, University of Thessaloniki, Physics Department, (2011)
- **I. Fountoulakis**: "Development and application of methodology for the use of the YES-UVB-1 actinometer as an instrument for the measurement of the UVB irradiance" BA degree Thesis, University of Thessaloniki, Physics Department, (2008)

International Scientific Reports

- Quaas, J., Sovacool, B., Cantoni, R., Chiodo, G., Corry, O., **Fountoulakis, I.**, Geden, O., Grasso, M., Gupta, A., Heyward, C., Korhonen, H., Lohmann, U., Michaelowa, A., Oschlies, A., Rabitz, F., Russchenberg, H., Storelvmo, T., Sulyok, K., Tavoni, M., Tilmes, S.: **Scientific Advice Mechanism to the European Commission. (2024). Solar radiation modification: evidence review report (1.0). SAPEA.** https://doi.org/10.5281/zenodo.14283096

Other documents

- **I. Fountoulakis** and C. Zerefos: **Uncertainties in Future Surface UV-B Doses in a Climatically Disturbed World: Chapter in book: 35th Anniversary Protecting the Ozone Layer, UNEP**, December, 2022
- **http://rbcce.aemet.es/dokuwiki/doku.php** (co-author of the online documentation of

EUBREWNET)

Citations

Scopus (author ID: 56568211800): **980** citations (733 excluding self-citations), h-index=**21**

TEACHING

Courses

- Teaching fellow at the Department of Environmental Engineering of the University of Patras, Greece during the academic year 2021 – 2022. IF was responsible for the preparation and the teaching of three pre-graduate courses: "Atmospheric Physics", "Air pollution", "Greenhouse effect and climatic changes".
- Co-teaching of the course "Computational tools for Environmental Research", Environmental physics MSc program, AUTH (2017). The subject of his teaching was to introduce MATLAB as a tool for analysis and processing of scientific datasets.
- Teaching assistant of the course "Atmospheric Technology", Physics Department BA program, AUTH (2013 - 2015). His main duty was to describe the methodology for the calibration of radiometric instruments used for measurements of the solar irradiance.
- Teaching assistant of the course "Basic Principles of Astronomy", Physics Department BA program, AUTH (2006). His main duties were to assist pre-graduate students in the context of the course and to correct and grade exercises.

Supervision of BA/MSc theses

- Co-supervision of the BA thesis of Maira Panagiotaki (University of Patras). Title: «Investigating the variability and trends of solar power potential in Europe and North Africa using BSRN, CAMS, and MERRA-2 data», 2025 - 2026

Supervision of student internships

- Investigating solar power potential in Europe using climate data (Maria Panagiotaki, University of Patras, 2025)
- Analyzing effective UV doses for vitamin D production in the human skin (Thomais Papazoi, University of Thessaly, 2025)

Supervision of PhD theses

- Member of the supervising committee of the PhD dissertation of Theodora Stavraka (National and Kapodistrian University of Athens) with title: "Solar radiation impacts on public health over Greece. Challenges and mitigation strategies in the era of climate change.", 2025 – ongoing
- Supervision of the PhD dissertation of Nikolaos Papadimitriou (University of Patras) with title: "Measurements and modelling of the surface solar radiation: Applications in energy, health, and atmospheric composition monitoring", 2023 – ongoing

POSTIONS OF RESPONSIBILITY

02

Hellenic Open University

Member of the Academic committee of the interdisciplinary post-graduate program "Protection of Cultural Heritage and Monuments of Nature from the Effects of Climate Change" (2023 - present)

European Scientific Advice Mechanism

Member of the SAPEA (Science Advice for Policy by European Academies) Working Group for the topic Solar Radiation Modification (SRM), in support of the European Scientific Advice Mechanism (SAM) (2023 - 2024)

International Science Council

Member of the global roster of experts of the International Science Council (2024 - present)

ADDITIONAL INFORMATION

Reviewer in scientific journals

IF is a reviewer for **36** scientific journals (detailed list of journals including publisher in Annex IV)

Editor/Advisor in journals

- Guest editor in the Copernicus Publications AMT/ACP inter-journal Special Issue with tittle "Sun-photometric measurements of aerosols: harmonization, comparisons, synergies, effects, and applications"
- Advisory board in Preprints.org
- Topics advisory panel in Atmosphere (MDPI)

Reviewer of PhD dissertation

"Development of a novel sunphotometer for aerosol and dust characterization in the atmosphere", Thesis of Agostino Tettamanti, Università Degli Studi di Milano, Dipartimento di Fisica, supervisor: : Prof. Marco Alberto Carlo Potenza, 2019, (link: https://air.unimi.it/handle/2434/694406)

Evaluator of scientific proposals

- Proposal Evaluator for Horizon Europe
- Proposal Evaluator for IKY (Greek Scholarship Foundation)
- Proposal Evaluator for the Estonian Research Council
- Proposal Evaluator for the Arctic Research Council
- Proposal Evaluator for the Research Council (TRC) of the Sultanate of Oman

Organization of meetings conferences

- COST-Action HARMONIA Core Group meeting, Academy of Athens, Greece, 14 October 2024
- COST-Action HARMONIA meeting with title: "Maximizing aerosol measurement use from ground based photometers", Academy of Athens, Greece, 18 - 19 September 2023

Field Campaigns

- THE 20th INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE, "El Arenosillo" Atmospheric Sounding Station, INTA (Huelva, Spain) June 16th to 28th, 2025
- THE 14th INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE, "El Arenosillo" Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 28, 2019
- THE XII INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAIGN - ATMOZ (Traceability of Atmospheric Total Ozone) Field demonstration campaign, "El Arenosillo" Atmospheric Sounding Station, INTA, Huelva, Spain, May 29 – June 07, 2017
- THE X INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER CALIBRATION CENTER-EUROPE & COST ACTION ES1207 EUBREWNET CAMPAING, "El Arenosillo" Atmospheric Sounding Station, INTA, Huelva, Spain, May 27 – June 05, 2015

International schools (trainee)

- 17th WMO-GAW BREWER OPERATOR COURSE, "El Arenosillo" Atmospheric Sounding Station, INTA, Huelva, Spain, June 17 – June 21, 2019
- 14th WMO-GAW BREWER USERS GROUP MEETING, EUBREWNET & WMO GAW BREWER OPERATOR COURSE, State Meteorological Agency of Spain, Santa Cruz de Tenerife, Spain, 24th – 28th March 2014

International schools (trainer)

- Sky over Berlin, aerosol measurements workshop in the context of the EU Cost Action HARMONIA, Berlin, Lindenberg, Germany, April 8 -10, 2024

Honours and awards

- Co-author in the paper that gained the best Paper Award in the Special Session "Urban Climate Systems: Drivers, Impact and Response Strategies" at the 5th Mediterranean Geosciences Union (MedGU) meeting, that took place in Athens, Greece (10–12 November 2025)
- Co-author in the paper that gained the best Paper Award in the Session " Environmental Earth Sciences" at the 4th Mediterranean Geosciences Union (MedGU) meeting, that took place in Barcelona, Spain (25–28 November 2024)
- Travelling grant for the participation at the conference of the Italian Regional Environmental Protection Agencies "VII convegno nazionale agenti fisici, Stresa, Italy, 5-7 giugno 2019" as an invited speaker.
- IUGG travelling grant for the participation in 26th General Assembly of the International Union of Geodesy and Geophysics (IUGG), held in Prague, Czech Republic, June 22 – July 2, 2015.
- COST ACTION ES1207 travelling grant for the Short-Term Scientific Mission: "Correction of the Brewer measurements for the dead time effect" (COST-STSM-ES1207-21218), (September 28 – October 8, 2014)

Memberships

- Member of the European Geoscience Union (EGU) (2016 - present)
- Member of the European Meteorological Society (EMS) (2024 - present)
- Regular member of Sigma Xi, The Scientific Research Honor Society (2026 – present)
- Member of the Hellenic Meteorological Society (EMTE) (2025 – present)
- Member of the Greek Physicists Union (EEF) (2025 – present)

Projects

IF has worked in **27** (25 under contract and 2 cost actions) national and international projects as a research scientist (WP leader in 2 projects, WG co-leader in 1 project, PI in 1 project). A detailed list of the projects and the work carried out for each one of them is provided in annex V.

Annex I - List of peer reviewed papers

2026

J1. Papadimitriou, N., **Fountoulakis, I.**, Gkikas, A., Papachristopoulou, K., Kazantzidis, A., Kazadzis, S., Pfenninger, S., Kapsomenakis, J., Eleftheratos, K., Argiriou, A. A., Doppler, L., and Zerefos, C. S.: **PV power modelling using solar radiation from ground-based measurements and CAMS: Assessing the diffuse component related uncertainties leveraging the Global Solar Energy Estimator (GSEE)**, Atmos. Meas. Tech., 19, 1227–1244, https://doi.org/10.5194/amt-19-1227-2026, 2026.

J2. Gidarakou, M., Papayannis, A., Mylonaki, M., Kralli, E., Eleftheratos, K., **Fountoulakis, I.**, Zografou, O., Diapouli, E., Gini, M. I., Vratolis, S., Granakis, K., Eleftheriadis, K., Evangeliou, N., Groot Zwaaftink, C., Giagka, E., Zagklis, M.-A., and Veselovskii, I.: **Exceptional wildfire smoke over Greece in summer 2023: a synergistic study of aerosol optical-microphysical and UVB radiative impacts**, Atmos. Chem. Phys., 26, 4313–4339, https://doi.org/10.5194/acp-26-4313-2026, 2026.

2025

J3. Spyrou, C., **Fountoulakis, I.**, Solomos, S., Papadimitriou, N., Bais, A., Gröbner, J., Meloni, D., and Zerefos, C.: **Implications of dust minerals on radiative transfer at regional scale, using the METAL-WRF model**, Atmos. Meas. Tech., 18, 7717–7734, https://doi.org/10.5194/amt-18-7717-2025, 2025.

J4. Proestakis, E., Papachristopoulou, K., Georgiou, T., Chatoutsidou, S. E., Lazaridis, M., Gkikas, A., **Fountoulakis, I.**, Tsikoudi, I., Petrakis, M. P., and Amiridis, V.: **Atmospheric dust and air quality over large-cities and megacities of the world**, Atmos. Chem. Phys., 25, 14777–14823, https://doi.org/10.5194/acp-25-14777-2025, 2025.

J5. **Fountoulakis, I.**, Papachristopoulou, K., Kazadzis, S., Hülsen, G., Gröbner, J., Raptis, I.-P., Kouklaki, D., Masoom, A., Kouremeti, N., Kontoes, C., and Zerefos, C. S.: **Assessment of the accuracy in UV index modelling using the UVIOS2 system during the UVC-III campaign**, Geosci. Model Dev., 18, 7451–7473, https://doi.org/10.5194/gmd-18-7451-2025, 2025.

J6. Hou, X., **Fountoulakis, I.**, Blanc, P., Aebi, C., Kazadzis, S.: «**Intrahour solar radiation forecasting based on sun visibility for different cloud types**», Solar Energy, 294, 113477, https://doi.org/10.1016/j.solener.2025.113477, 2025.

J7. Kazadzis, S., **Fountoulakis, I.**, Damialis, A., Masoom, A., Papachristopoulou, K., Gilles, S., Coen, M.C., Tummon, F., Crouzy, B., Clot, B., Pat, Y., Brüggen, M.-C., Nyeki, S., Raptis, I.-P., Solomos, S., Gkikas, A., Moustaka, A., Kouremeti, N., Akdis, C.A.: «**Aerosol Measurements and Decadal Changes: The Role of Climatic Changes and How It Reflects in Respiratory Allergies and Asthma**», Allergy: European Journal of Allergy and Clinical Immunology, 80 (6), pp. 1613-1628. https://doi.org/10.1111/all.16602, 2025.

2024

J8. Amiridis, V.; Kazadzis, S.; Gkikas, A.; Voudouri, K.A.; Kouklaki, D.; Koukouli, M.-E.; Garane, K.; Georgoulias, A.K.; Solomos, S.; Varlas, G.; et al. **Natural Aerosols, Gaseous Precursors and Their Impacts in Greece: A Review from the Remote Sensing Perspective.** Atmosphere, 15, 753. https://doi.org/10.3390/atmos15070753, 2024.

J9. Fragkos, K.; **Fountoulakis, I.**; Charalampous, G.; Papachristopoulou, K.; Nisantzi, A.; Hadjimitsis, D.; Kazadzis, S.: **Twenty-Year Climatology of Solar UV and PAR in Cyprus: Integrating Satellite Earth Observations with Radiative Transfer Modeling.** Remote Sens., 16, 1878. https://doi.org/10.3390/rs16111878, 2024.

J10. Moustaka, A.; Korras-Carraca, M.-B.; Papachristopoulou, K.; Stamatis, M.; **Fountoulakis, I.**; Kazadzis, S.; Proestakis, E.; Amiridis, V.; Tourpali, K.; Georgiou, T.; et al. **Assessing Lidar Ratio Impact on CALIPSO Retrievals Utilized for the Estimation of Aerosol SW Radiative Effects across North Africa, the Middle East, and Europe.** Remote Sens., 16, 1689. https://doi.org/10.3390/rs16101689, 2024.

J11. **Fountoulakis, I.**, Tsekeri, A., Kazadzis, S., Amiridis, V., Nersesian, A., Tsichla, M., Proestakis, E., Gkikas, A., Papachristopoulou, K., Barlakas, V., Emde, C., and Mayer, B.: **A sensitivity study on radiative effects due to the parameterization of dust optical properties in models**, Atmos. Chem. Phys., 24, 4915–4948, https://doi.org/10.5194/acp-24-4915-2024, 2024.

J12. Papachristopoulou, K., **Fountoulakis, I.**, Bais, A. F., Psiloglou, B. E., Papadimitriou, N., Raptis, I.-P., Kazantzidis, A., Kontoes, C., Hatzaki, M., and Kazadzis, S.: **Effects of clouds and aerosols on downwelling surface solar irradiance nowcasting and short-term forecasting**, Atmos. Meas. Tech., 17, 1851–1877, https://doi.org/10.5194/amt-17-1851-2024, 2024.

2023

J13. Kouklaki, D.; Kazadzis, S.; Raptis, I.-P.; Papachristopoulou, K.; **Fountoulakis, I.**; Eleftheratos, K.: **Photovoltaic Spectral Responsivity and Efficiency under Different Aerosol Conditions.** Energies, 16, 6644. https://doi.org/10.3390/en16186644, 2023

J14. Masoom, A., **Fountoulakis, I.**, Kazadzis, S., Raptis, I.-P., Kampouri, A., Psiloglou, B. E., Kouklaki, D., Papachristopoulou, K., Marinou, E., Solomos, S., Gialitaki, A., Founda, D., Salamalikis, V., Kaskaoutis, D., Kouremeti, N., Mihalopoulos, N., Amiridis, V., Kazantzidis, A., Papayannis, A., Zerefos, C. S., and Eleftheratos, K.: **Investigation of the effects of the Greek extreme wildfires of August 2021 on air quality and spectral solar irradiance**, Atmos. Chem. Phys., 23, 8487–8514, https://doi.org/10.5194/acp-23-8487-2023, 2023.

J15. Raptis, I.-P., Kazadzis, S., **Fountoulakis, I.**, Papachristopoulou, K., Kouklaki, D., Psiloglou, B.E., Kazantzidis, A., Benetatos, C., Papadimitriou, N., Eleftheratos, K.: **Evaluation of the Solar Energy Nowcasting System (SENSE) during a 12-Months Intensive Measurement Campaign in Athens, Greece**, Energies, 16, 5361. https://doi.org/10.3390/en16145361, 2023

J16. Zerefos, C., **Fountoulakis, I.**, Eleftheratos, K., and Kazantzidis, A.: **The long-term variability of human health related solar ultraviolet-B radiation doses from the 1980s to the end of 21st century**, Physiological Reviews, 103:3, 1789-1826, https://doi.org/10.1152/physrev.00031.2022, 2023

J17. Petkov, B. H., Vitale, V., Di Carlo, P., Drofa, O., Mastrangelo, D., Smedley, A. R. D., Diémoz, H., Siani, A.-M., **Fountoulakis, I.**, Webb, A. R., Bais, A., Kift, R., Rimmer, J., Casale, G.-R., Hansen, G. H., Svendby, T., Pazmiño, A., Werner, R., Atanassov, A. M., Láska, K., De Backer, H., Mangold, A., Köhler, U., Velazco, V. A., Stübi, S. Solomatnikova, A., Pavlova, K., Sobolewski, P. S., Johnsen, B., Goutail, F., Mišaga, O. Aruffo, E., Metelka, L., Tóth, Z., Fekete, D., Aculinin, A. A. Lupi, A., Mazzola, M., Zardi, F.: **An unprecedented Arctic ozone depletion event during spring 2020 and its impacts across Europe.** Journal of Geophysical Research: Atmospheres, 128, e2022JD037581. https://doi.org/10.1029/2022JD037581, 2023

2022

J18. Papachristopoulou, K., Raptis, I.-P., Gkikas, A., **Fountoulakis, I.**, Masoom, A., and Kazadzis, S.: **Aerosol optical depth regime over megacities of the world**, Atmos. Chem. Phys., 22, 15703–15727, https://doi.org/10.5194/acp-22-15703-2022, 2022.

J19. Eleftheratos, K., Kapsomenakis, J., **Fountoulakis, I.**, Zerefos, C. S., Jöckel, P., Dameris, M., Bais, A. F., Bernhard, G., Kouklaki, D., Tourpali, K., Stierle, S., Liley, J. B., Brogniez, C., Auriol, F., Diémoz, H., Simic, S., Petropavlovskikh, I., Lakkala, K., and Douvis, K.: **Ozone, DNA-active UV radiation, and cloud changes for the near-global mean and at high latitudes due to enhanced greenhouse gas concentrations**, Atmos. Chem. Phys., 22, 12827–12855, https://doi.org/10.5194/acp-22-12827-2022, 2022.

J20. Papachristopoulou, K., **Fountoulakis, I.**, Gkikas, A., Kosmopoulos, P.G., Nastos, P.T., Hatzaki, M., Kazadzis, S.: **15-Year Analysis of Direct Effects of Total and Dust Aerosols in Solar Radiation/Energy over the Mediterranean Basin**, Remote Sensing, 14, 7, https://doi.org/10.3390/rs14071535, 2022

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Preprints (under review)

R1. Pantazis, C., Solomos, S., Nastos, P., Maneas, G., Kairis, O., Centrito, M., Marino, G., Roggero, P. P., Mihail, J., **Fountoulakis, I.**, Kapsomenakis, J., Gkisakis, V., Kourgialas, N., Kalantzakis, G. S.. Papamanolioudaki, A. G., Sergentani, C. K., and Zerefos, C. S., «**Insights into the Effects of Climate Variability and Agricultural Practices on Olive Orchards in Messenia, Greece: A Field Experiment Study**», Available at SSRN: http://dx.doi.org/10.2139/ssrn.5084155, 2025.

R2. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Papachristopoulou, K., Moustaka, A., Marenco, F., Derimian, Y., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: **Characterization of Dust Aerosol Source Types and Associated Shortwave Direct Radiative Effects Over Cyprus: A Seven-Year Study**, EGUsphere [preprint], https://doi.org/10.5194/egusphere-2026-1775, 2026.

R3. Kouklaki, D., Charalampous, G., Moustaka, A., Papetta, A., Herrero del Barrio, C., Chadoulis, R.-T., Aslanoğlu, S. Y., Herrero-Anta, S., Mytilinaios, M., Papadimitriou, N., Anyfanti, K., Spyrou, C., Meloni, D., Fragkos, K., Derimian, Y., Di Iorio, T., Mamouri, R.-E., Amiridis, V., Solomos, S., Kazadzis, S., and **Fountoulakis, I.**: **Dust Radiative Effects and Impact on Energy Production over the Mediterranean Basin**, EGUsphere [preprint], https://doi.org/10.5194/egusphere-2026-2775, 2026.

R4. Papetta, A., Herrero del Barrio, C., Aslanoğlu, S. Y., Chadoulis, R.-T., Charalampous, G., Herrero-Anta, S., Kouklaki, D., Mytilinaios, M., Moustaka, A., Proestakis, E., Amiridis, V., Spyrou, C., Gkikas, A., Pikridas, M., Kezoudi, M., Marenco, F., Sciare, J., Vandenbussche, S., Solomos, S., Kazadzis, S., and **Fountoulakis, I.**: **Source-Dependent Optical and Mineral Signatures of Dust Outbreaks over the Mediterranean**, EGUsphere [preprint], https://doi.org/10.5194/egusphere-2026-1956, 2026.

Summary of publications – journals

A/A	Journal	Publisher	Impact Factor (2022)	Number of publications
1	Atmospheric Measurement Techniques	Copernicus Publications	3.3	9
2	Atmospheric Chemistry and Physics	Copernicus Publications	5.1	9
3	Remote Sensing	MDPI	4.1	7
4	Atmosphere	MDPI	2.3	4
5	Atmospheric Environment	Elsevier	3.7	3
6	Chemical Engineering Journal	Elsevier	13.2	2
7	Science of the Total Environment	Elsevier	8.0	2
8	Bulletin of Atmospheric Science and Technology	Springer	-	2
9	Journal of Geophysical Research-Atmospheres	American Geophysical Union Publications	3.4	2
10	Energies	MDPI	3.2	2
9	Physiological Reviews	American Physiological Society	28.7	1
11	Earth System Science Data	Copernicus Publications	11.6	1
12	Allergy	Wiley	12.0	1
13	Photochemical & Photobiological Sciences	Royal Society of Chemistry	3.2	1
14	Theoretical and Applied Climatology	Springer	2.7	1
15	Metrologia	IOPscience	2.4	1
16	Comptes Rendus Geoscience	ScienceDirect	1.4	1
17	Solar Energy	Elsevier	6.6	1
18	Environments	MDPI	3.7	1

19	Geoscientific Model Development	Copernicus Publications	4.9	1
	Total		**Average=4.9**	**52**

Annex II - List of conference papers

2025

CP1. Charalampous, G.; Fragkos, K.; **Fountoulakis, I.**; Papachristopoulou, K.; Nisantzi, A.; Mamouri, R.-E.; Hadjimitsis, D.; Kazadzis, S. Direct Radiative Effects of Dust Events over Limassol, Cyprus in 2024 Using Ground-Based Measurements and Modelling. Environ. Earth Sci. Proc. 2025, 35, 77. https://doi.org/10.3390/eesp2025035077

CP2. P. Nastos, C. Pantazis, S. Solomos, **I. Fountoulakis**, C. S. Zerefos, "Evaluating soil erosion risk in olive orchards through drone-based monitoring and field experiments", Proc. SPIE 13816, Eleventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2025), 138160G (19 September 2025); https://doi.org/10.1117/12.3075485

CP3. Georgia Charalampous, Konstantinos Fragkos, **Ilias Fountoulakis**, Diofantos Hadjimitsis, Stelios Kazadzis, "The Solar Radiation and Energy Laboratory (ESEL) at Limassol, Cyprus: infrastructure, QA/QC procedures, and first year of results", Proc. SPIE 13816, Eleventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2025), 1381615 (19 September 2025); https://doi.org/10.1117/12.3075522

CP4. Kartsios, S.; Misios, S.; Patlakas, P.; Varotsos, K.; Mavropoulou, I.; Kourantos, T.; **Fountoulakis, I.**; Gkikas, A.; Solomos, S.; Kapsomenakis, I.; et al. ClimateHub: Seasonal to Decadal Predictions for National Renewable Energy Management. Environ. Earth Sci. Proc. 2025, 35, 28. https://doi.org/10.3390/eesp2025035028

CP5. Charalampous, G., Fragkos, K., Nisantzi, A., **Fountoulakis, I.**, Papachristopoulou, K., Hadjimitsis, D., and Kazadzis, S.: «Preliminary Evaluation of The Cyprus Erythemal Irradiance Forecasting System», IOP Conf. Ser.: Earth Environ. Sci., 1522(1), 012038, https://doi.org/10.1088/1755-1315/1522/1/012038, 2025.

CP6. **Fountoulakis, I.**, K. Garane, K. Eleftheratos, D. Kouklaki, A. Kapoulas, A. Bais, N. Papadimitriou, K. Fragkos, K. Papachristopoulou, S. Kazadzis, H. Diémoz, V. Savastiouk, V. Amiridis, A. Papayannis and C. S. Zerefos: «20-year trends and variability of the UV index over Athens and Thessaloniki, Greece from measured and reconstructed time series», IOP Conf. Ser.: Earth Environ. Sci. 1522 012036, https://doi.org/10.1088/1755-1315/1522/1/012036, 2025.

CP7. Kouklaki, D., **I. Fountoulakis**, S. Kazadzis, I-P Raptis, A. Kazantzidis, A. Kapoulas, K. Papachristopoulou, N. Papadimitriou, V. Amiridis, C. S. Zerefos, and K. Eleftheratos: «The Effect of Atmospheric Variability in Measured Spectral Ultraviolet Radiation in Athens, Greece, During the ASPIRE Campaign», IOP Conf. Ser.: Earth Environ. Sci. 1522 012037, https://doi.org/10.1088/1755-1315/1522/1/012037, 2025.

2024

CP8. K. Fragkos, G. Charalampous, **I. Fountoulakis**, K. Papachristopoulou, D. Hadjimitsis and S. Kazadzis, "Next-Day Solar Irradiance Forecasting: A Preliminary Study in Limassol" 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED), Limassol, Cyprus, 2024, pp. 1-5, https://doi.org/10.1109/SyNERGYMED62435.2024.10799286.

CP9. Konstantinos Fragkos, **Ilias Fountoulakis**, Georgia Charalampous, Kyriakoula Papachristopoulou, Rodanthi-Elisavet Mamouri, Dragos Ene, Argyro Nisantzi, Albert Ansmann, Patric Seifert, Diofantos Hadjimitsis, Stelios Kazadzis, "An assessment of solar irradiance enhancement events during CyCARE campaign at Limassol, Cyprus" Proc. SPIE 13212, Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), 1321206 (13 September 2024); https://doi.org/10.1117/12.3034290

CP10. Georgia Charalampous; Konstantinos Fragkos; Andreas Karpasitis; **Ilias Fountoulakis**; Argyro Nisantzi; Kyriakoula Papachristopoulou: "Cyprus Erythemal Radiation Forecasting System (CERYFOS)" IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 2024, pp. 3668-3672, https://doi.org/10.1109/IGARSS53475.2024.10642077.

CP11. Konstantinos Fragkos, **Ilias Fountoulakis**, Georgia Charalampous, Kyriakoula Papachristopoulou, Rodanthi-

Elisavet Mamouri, Dragos Ene, Argyro Nisantzi, Albert Ansmann, Patric Seifert, Diofantos Hadjimitsis, Stelios Kazadzis, "An assessment of solar irradiance enhancement events during CyCARE campaign at Limassol, Cyprus", https://doi.org/10.1117/12.3034290, Proc. SPIE 13212, Tenth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2024), 1321206, 13 September 2024.

CP12. Katerina Garane, **Ilias Fountoulakis**, Angelos Karanikolas, Alkiviadis F. Bais, Charikleia Meleti; Thirty years of solar ultraviolet spectral irradiance measurements in Thessaloniki: Variability and trends. AIP Conf. Proc. 18 January 2024; 2988 (1): 090003. https://doi.org/10.1063/5.0183293

CP13. Angelos Karanikolas, Athanasios Natsis, **Ilias Fountoulakis**, Dimitris Karagkiozidis, Charikleia Meleti, Kleareti Tourpali, Alkiviadis Bais; The UV index in the 21st century over Thessaloniki, Greece, from measurements and simulations in relation to the Montreal Protocol. AIP Conf. Proc. 18 January 2024; 2988 (1): 090001. https://doi.org/10.1063/5.0182767

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CP15. Fragkos, K., Nisantzi, A., **Fountoulakis, I.**, Michaelides, S., Charalampous, G., Papachristopoulou, K., Kontoes, C., Hadjimitsis, D., and Kazadzis, S.: Introducing the Solar Radiation and Energy Laboratory of the Eratosthenes Centre of Excellence: Overview of Activities, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, https://doi.org/10.3390/environsciproc2023026045, 2023.

CP16. **Fountoulakis, I.**, Siomos, N., Raptis, I.-P., Eleftheratos, K., Kouklaki, D., Psiloglou, B. E., Amiridis, V., and Kazadzis, S.: Using Radiometric Measurements to Separate Dust and Smoke Radiative Effects during a Combined Smoke-Dust Event, https://doi.org/10.3390/environsciproc2023026026, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.

CP17. Papachristopoulou, K., Tsekeri, A., Kouklaki, D., Raptis, P. I., Marinou, E., Amiridis, V., **Fountoulakis, I.**, and Kazadzis, S.: Surface Shortwave Radiation Measurements and Modeling under Intense Desert Dust Conditions, https://doi.org/10.3390/environsciproc2023026015, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.

CP18. Kouklaki, D., Papachristopoulou, K., **Fountoulakis, I.**, Tsekeri, A., Raptis, P.-I., Kazadzis, S., and Eleftheratos, K.: Impact of Aerosols on Surface Solar Radiation and Solar Energy in the Mediterranean Basin, https://doi.org/10.3390/environsciproc2023026056, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.

CP19. Moustaka, A., Korras-Carraca, M.-B., Papachristopoulou, K., **Fountoulakis, I.**, Kazadzis, S., Proestakis, E., Amiridis, V., Tourpali, K., and Gkikas, A.: Assessment of Cloud-Aerosol Lidar with Orthogonal Polarization–Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations Retrievals towards Estimating the Aerosol Direct Impact on the Shortwave Radiation Budgets in North Africa, Europe, and the Middle East, https://doi.org/10.3390/environsciproc2023026139, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.

CP20. Eleftheratos, K., Raptis, I.-P., Kouklaki, D., Kazadzis, S., **Fountoulakis, I.**, Psiloglou, B. E., Papachristopoulou, K., Founda, D., Benetatos, C., Kazantzidis, A., and Richter, A.: The ASPIRE Project: Atmospheric Parameters Affecting Solar Irradiance and Solar Energy in Athens, Greece: Overview and Results, https://doi.org/10.3390/environsciproc2023026046, 16th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, September 25-29, 2023.

CP21. K. Fragkos, A. Nisantzi, **I. Fountoulakis**, S. Michaelides, G. Charalampous, K. Papachristopoulou, C. Kontoes, D.

Hadjimitsis, and S. Kazadzis: The solar radiation and energy laboratory of Eratosthenes Centre of Excellence: establishment and research directions. Ninth International Conference on Remote Sensing and Geoinformation of Environment, Ayia Napa, Cyprus, 3-5 April, 2023

CP22. G. Charalampous, K. Fragkos, A. Nisantzi, **I. Fountoulakis**, D. Hadjimitsis, S. Kazadzis, and K. Papachristopoulou: Satellite ozone and UV measurements over Cyprus. Ninth International Conference on Remote Sensing and Geoinformation of Environment, Ayia Napa, Cyprus, 3-5 April, 2023

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CP23. Panagiotis Kosmopoulos, Marios Mechilis, **Ilias Fountoulakis**, Akriti Masoom and Stelios Kazadzis: Energy Autonomy Scenarios for the Island of Antikythera in Greece by Exploiting Solar Power Plant Technologies, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP24. **Ilias Fountoulakis**, Kyriakoula Papachristopoulou, Emmanouil Proestakis, Vassilis Amiridis, Charalampos Kontoes and Stelios Kazadzis: Effect of the vertical profile of aerosol extinction coefficient on the modelling of solar radiation in different spectral regions, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP25. Henri Diémoz, **Ilias Fountoulakis**, Gabriele Fasano, Annachiara Bellini, Anna Maria Siani, Monica Campanelli, Francesca Barnaba and Gian Paolo Gobbi: A multi-sensor research network for the advanced characterisation of solar radiation, aerosol properties and trace gases in the Alps, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP26. Gabriele Fasano, Henri Diémoz, Claudio Cassardo, **Ilias Fountoulakis**, Rei Kudo, Monica Campanelli and Victor Estellés: Vertical Profile of the Aerosol Direct Radiative Effect in an Alpine Valley, by the Synergy of Ground-based Measurements and Radiative Transfer Models, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP27. Kyriakoula Papachristopoulou, **Ilias Fountoulakis**, Antonis Gkikas, Panagiotis Kosmopoulos, Panagiotis Nastos, Maria Hatzaki and Stelios Kazadzis: Total Aerosols and Pure Dust Induced Perturbations on Downwelling Surface Solar Radiation over the Mediterranean Basin, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP28. Alexandra Tsekeri, Vassilis Amiridis, Maria Tsichla, **Ilias Fountoulakis**, Angelos Nersesian, Emmanouil Proestakis, Antonis Gkikas, Kyriakoula Papachristopoulou, Vasileios Barlakas and Stelios Kazadzis: The Effect of Large Dust Size on Solar Radiation Fluxes, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP29. Kostas Eleftheratos, Dimitra Kouklaki, **Ilias Fountoulakis**, Ioannis-Panagiotis Raptis, Dimitra Founda, Stelios Kazadzis, Basil Psiloglou,Vassilis Amiridis, Eleni Marinou and Christos Zerefos: Impact of Extreme Wildfires of August 2021 on Air Quality and Solar Irradiance in Greece, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP30. Panagiotis Kosmopoulos, Stelios Kazadzis, Alois Schmalwieser, Panagiotis Raptis, Kyriakoula Papachristopoulou, **Ilias Fountoulakis**, Akriti Masoom, Alkiviadis Bais, Julia Bilbao, Mario Blumthaler, Axel Kreuter, Anna Maria Siani, Kostas Eleftheratos, Chrysanthi Topaloglou, Julian Gröbner, Bjørn Johnsen, Tove Svendby, Jose Manuel Vilaplana, Lionel Doppler, Ann Webb, Marina Khazova, Hugo De Backer, Anu Heikkilä, Kaisa Lakkala, Janusz Jaroslawski, Charikleia Meleti, Henri Diémoz, Gregor Hülsen, Barbara Klotz, John Rimmer and Charalampos Kontoes: The Ultraviolet Index Operating System (UVIOS): Application Example and Validation in the European Region, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP31. Angelos Karanikolas, Athanasios Natsis, **Ilias Fountoulakis**, Dimitris Karagkiozidis, Charikleia Meleti, Kleareti Tourpali and Alkiviadis Bais: The UV Index in the 21st Century over Thessaloniki, Greece, from Measurements and Simulations in Relation to the Montreal Protocol, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP32. Katerina Garane, **Ilias Fountoulakis**, Angelos Karanikolas, Alkiviadis F. Bais and Charikleia Meleti: Thirty years of solar ultraviolet spectral irradiance measurements in Thessaloniki: Variability and trends, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

CP33. Nikolaos Siomos, Dimitris Karagkiozidis, **Ilias Fountoulakis**, Fani Gkertsi, Dimitris Nikolis, Kalliopi A. Voudouri, Konstantinos Michailidis, Katerina Garane, Angelos Karanikolas, Athanasios Natsis, Alkiviadis F. Bais and Dimitris Balis: Exploring the synergy of lidars and spectrophotometers and its potential to separate aerosol species and improve trace gas profiling, International Radiation Symposium (IRS), Thessaloniki, Greece, 4 – 8 June 2022.

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CP34. N. Siomos, D. Balis, A. Bais, M. Koukouli, K. Garane, K. A. Voudouri, F. Gkertsi, A. Natsis , D. Karagkiozidis , and **I. Fountoulakis**: Towards an algorithm for near real time profiling of aerosol species, trace gases, and clouds based on the synergy of remote sensing instruments, https://doi.org/10.1051/epjconf/202023708023, 29th International Laser Radar Conference (ILRC29), Hefei, China, June 24-28, 2019

2016

CP35. Zempila M. M., Koukouli M. E., Bais, A., Arola A., **Fountoulakis I.**, Kouremeti N., Kazadzis S., Balis D.: Long-term comparisons of OMI surface UV irradiances with a NILU-UV multi-filter actinometer in Thessaloniki, Greece , ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016

CP36. Zempila M. M., Taylor M., **Fountoulakis I.**, Koukouli M. E., Bais, A., Kouremeti, N., Kazadzis, S., Meleti, C., Balis, D.: CIE, Vitamin D and DNA damage: A synergetic study in Thessaloniki, Greece, ESA Living Planet Symposium 2016, Prague, Czech Republic, 9-13 May 2016

Annex III - List of abstracts in conference proceedings

2026

CA1. Papadimitriou, N., Douvis, K., Misios, S., Gkikas, A., Kazantzidis, A., Zerefos, C.S., and **Fountoulakis, I.**: Projected variability of solar resources in the Eastern Mediterranean and Middle East, DPG Spring Meetings 2026, Dresden, Germany, 8-13 Mar 2026, 2026.

CA2. Stavraka, T., **Fountoulakis, I.**, Eleftheratos, K., Nastos, P., Papazoi, T., Fragkos, K., Bais, A., Garane, K., Kazantzidis, A., Papayannis, A., Amiridis, V., and Zerefos, C.: Assessing aerosol-related uncertainties in satellite-based retrievals of effective UV doses for the production of cutaneous vitamin D. , EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-864, https://doi.org/10.5194/egusphere-egu26-864, 2026.

CA3. Huerta Gómez, M., Bais, A., Redondas, A., Meloni, D., **Fountoulakis, I.**, di Sarra, A., Garane, K., Kazadzis, S., and WIld, M.: **Dust optical properties in the UV**, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-6009, https://doi.org/10.5194/egusphere-egu26-6009, 2026.

CA4. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Papachristopoulou, K., Nisantzi, A., Hadjimitsis, D., and Kazadzis, S.: Evaluation of the Cyprus UV Index (UVI) Forecasting System Over One Year of Observations: Assessing the Impact of Ozone and Aerosols , EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-14140, https://doi.org/10.5194/egusphere-egu26-14140, 2026.

CA5. Poupkou, A., **Fountoulakis, I.**, Kalligeris, N., Kapsomenakis, J., Melis, N., Solomos, S., and Zerefos, C. and the Delos project team (including Papadimitriou, N.): An Emblematic, Transdisciplinary, and Multi-Hazard Monitoring Infrastructure on Delos Island (Greece) for the Protection of UNESCO World Heritage Monuments from Climate Change, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-18171, https://doi.org/10.5194/egusphere-egu26-18171, 2026.

2025

CA6. **Fountoulakis, I.**, Eleftheratos, K., Gkikas, A., Kouklaki, D., Papadimitriou, N., Amoiridis, V., Papayannis, A., and Zerefos, C.S.: Aerosol optical properties in the UV spectral region over Athens, Greece, MedGU-25, Athens, Greece, 10-12 Nov 2025, 2025.

CA7. Stavraka, T., T. Papazoi, **I. Fountoulakis**, P. Nastos, K. Fragkos, K. Eleftheratos, E. Koniari, A. Stratigos, A. Kazantzidis, George. Chrousos and C. Zerefos: Estimating optimal solar UV exposure times in Athens, Greece for vitamin D production using satellite-based UV products, 5th annual meeting of the Mediterranean Geoscience Union, MEDGU 2025, Athens, Greece, 10 – 12 November, 2025.

CA8. Papadimitriou, N., K. Douvis, J. Kapsomenakis, S. Misios, S. Solomos, S. Kazadzis, A. Kazantzidis, C. Zerefos, and **I. Fountoulakis**: Impact of cloudiness on future variability of PV power generation in the Eastern Mediterranean, 5th annual meeting of the Mediterranean Geoscience Union, MEDGU 2025, Athens, Greece, 10 – 12 November, 2025.

CA9. Misios, S., Douvis, K., Stavraka, T., Kapsomenakis, J., Solomos, S., Gkikas, A., Spyrou, C., **Fountoulakis, I.**, Poupkou, A., Kalabokas, P. and Zerefos, C., 2025. "Mediterranean amplification in the LESFMIP simulations". In: 17th International Conference on Meteorology, Climatology, and Atmospheric Physics (COMECAP2025), Nicosia, Cyprus, 29 September - 1 October 2025.

CA10. Kapsomenakis, I., Misios, S., **Fountoulakis, I.**, Papadimitriou, N., Douvis, K., Pantazis, C., Stavraka, T., Gkikas, A., Logothetis, SA., Solomos, S., Zerefos, C., Investigating the potential effects of SRM employment on vegetation, 17th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2025), Nicosia, Cyprus, 29 Sept–01 Oct 2025.

CA11. Kartsios, S., S. Misios, I. Mavropoulou, T. Kourantos, I. Kapsomenakis, **I. Fountoulakis**, A. Gkikas, S. Solomos, D. Kouklaki, P. Patlakas, K. Varotsos, E. Marinou, D. Bliziotis, N. Sergis, D. Vallianatos, S. Papatheochari, C. Giannakopoulos, P. Zanis, V. Amiridis, and C. Zerefos: «ClimateHub: Seasonal to decadal

predictions for national renewable energy management», COMECAP 2025, 28 September – 1 October 2025, Nicosia, Cyprus, 2025.

CA12. Papetta, A., C. Herrero-de-Aza, Y. Aslanoglu, R.T. Chadoulis, G. Charalambous, S. Herrero, D. Kouklaki, M. Mytilinaios, A. Moustaka, E. Proestakis, S. Vandenbussche, F. Marenco, M. Pikridas, A. Gkikas, **I. Fountoulakis**, S. Solomos and S. Kazadzis: «Variability of Dust Optical Properties during Severe Dust Events over the Mediterranean», European Aerosol Conference, EAC2025, 31 August – 5 September 2025, Lecce, Italy, 2025.

CA13. Zerefos, C., Solomos, S., Kapsomenakis, J., Poupkou, A., **Fountoulakis, I.**, Douvis, K., Spyrou, C., Stavraka, T., Gkikas, A., Kalabokas, P., Synolakis, C., Kalligeris, N., Melis, N., Garlaouni, C., Lentas, K., Liadopoulos, E., Boukouras, K., Kalogeras, I., Athanasoulis, D., Vakoulis, T., Maris C., 2025. "The development of Delos environmental monitoring site". International Conference on Computer Applications & Quantitative Methods in Archaeology 2025, Digital Horizons: Embracing heritage in an evolving world, Athens, Greece, 5-9 May 2025.

CA14. **Fountoulakis, I.**, S. Misios, A. Gialitaki, A. Gkikas, V. Amiridis, A. Kampouri, D. Kouklaki, A. Kazantzidis, K. Eleftheratos, K. Kourtidis, S. Rémy, B. Mayer, and C. S. Zerefos: «Changes in the spectral composition of surface solar radiation under the presence of stratospheric aerosols: a case study for the Pinatubo eruption», EGU General Assembly 2025, Vienna, Austria, 27 April – 2 May 2025.

CA15. **Fountoulakis, I.**, Melis, N. S., Solomos, S., Kapsomenakis, J., Poupkou, A., Maris, C., Synolakis, C., and Zerefos, C. S. and the Delos Observatory team: Establishment of a transdisciplinary monitoring facility in Delos, Greece for the protection of Natural Heritage from the impacts of Climate Change, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-13403, https://doi.org/10.5194/egusphere-egu25-13403, 2025.

CA16. Papadimitriou, N., **Fountoulakis, I.**, Gkikas, A., Papachristopoulou, K., Kapsomenakis, J., Kazadzis, S., Kazantzidis, A., Zerefos, C. S.: Using the CAMS solar radiation time-series product to model solar PV power potential. Uncertainty evaluation under diverse atmospheric conditions using ground-based measurements, EGU General Assembly 2025, Vienna, Austria, EGU25-13836, https://doi.org/10.5194/egusphere-egu25-13836, 2025.

CA17. Maneas, G., Pantazis, C., Solomos, S., **Fountoulakis, I.**, and Zerefos, C. S.: Leveraging a Living Lab Approach for Sustainable Olive Cultivation: Addressing Climate Challenges and Enhancing Agroecosystem Resilience, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-21253, https://doi.org/10.5194/egusphere-egu25-21253, 2025.

CA18. Pantazis, C., Nastos, P., Solomos, S., **Fountoulakis, I.**, Konsolaki, A., and Zerefos, C.: High-Resolution Soil Erosion Assessment in Mediterranean Olive Orchards Using Drone-Based Digital Elevation Models and Surface Runoff Monitoring, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-12941, https://doi.org/10.5194/egusphere-egu25-12941, 2025.

CA19. Misios, S., Douvis, K., Stavraka, T., Kapsomenakis, J., Solomos, S., Gkikas, A., Spyrou, C., **Fountoulakis, I.**, Poupkou, A., Kalabokas, P., and Zerefos, C.: Summer-time Mediterranean amplification to different climate drivers, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-8848, https://doi.org/10.5194/egusphere-egu25-8848, 2025.

CA20. Zerefos, C., Melis, N., Solomos, S., **Fountoulakis, I.**, Kapsomenakis, J., Poupkou, A., Kalligeris, N., Maris C., Athanasoulis, D., Boukouras, K., Douvis, K., Garlaouni, C., Gkikas, A., Kalabokas, P., Kalogeras, I., Lentas, K., Liadopoulos, E., Papadimitriou, N., Spyrou, C., Stavraka, T., Synolakis, C. and Vakoulis, T., 2025. "Protecting Natural Heritage from Climate Change Impacts: The establishment of an emblematic transdisciplinary monitoring facility in Delos, Greece". 4th International Conference TMM-CH, Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Addressing World Challenges, Athens, Greece, 7-9 April 2025.

CA21. Aslanoğlu, S. Yeşer, R.-T. Chadoulis, G. Charalampous, S. Herrero-Anta, C. H. del Barrio, D. Kouklaki, A. Moustaka, M. Mytilinaios, A. Papetta, N. Papadimitriou, S. Solomos, A. Gkikas, C. Spyrou, S.

Vandenbussche, M. Proestakis, **I. Fountoulakis**: «Intense dust events over the Mediterranean Basin and their impact on PV power potential», EGU General Assembly 2025, Vienna, Austria, 27 April – 2 May 2025.

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CA22. C. Pantazis, S. Solomos, P. Nastos, G. Maneas, O. Kairis, M. Centritto, G. Marino, P.P. Roggero, J. Mihail, **I. Fountoulakis**, V. Gkisakis, N. Kourgialas, C. Zerefos: Impact of Climate Variability and Agricultural Practices on Olive Orchards in Messenia: A Field Experiment Approach, 4th annual meeting of the Mediterranean Geosciences Union, Barcelona, Spain, 25 – 28 November 2024

CA23. S. Vandenbussche, **I. Fountoulakis**, S. Solomos, S. Kazadzis, C. Toledano, L. Doppler, M. Campanelli, V. Estelles, R. Roman, A. Nemuc, P. Raptis, P. Dagsson-Waldhauserova, M. J. Costa, K. Papachristopoulou, A. Baretto, N. Kouremeti, A. Masoom: HARMONIA, International network for harmonisation of atmospheric aerosol retrievals from ground based photometers, 23rd AeroCom / 12th AeroSat workshop, Lille, France, Oct 14-18, 2024

CA24. Solomos, S., Kapsomenakis J., Poupkou A., **Fountoulakis I.**, Melis N., Athanasoulis D., Boukouras K., Douvis K., Garlaouni C., Gkikas A., Kalabokas P., Kalligeris N., Kalogeras I., Lentas K., Liadopoulos E., Maris C., Spyrou C., Stavraka T., Synolakis C., Zerefos C.: Impacts of climate change on cultural heritage. The development of Delos environmental monitoring facility. 3rd International Inter-Athenian Conference "Man and his Creations, a Perpetual Metamorphosis" organized by "Athens Calls Athens" on 5-7 November 2024

CA25. **Fountoulakis, I.**, Kapsomenakis, I., Melis N., Poupkou, A., Solomos, S., Athanasoulis, D., Boukouras, K., Douvis, K., Garlaouni, C., Gkikas, A., Kalabokas, P., Kalligeris, N., Kalogeras, I., Lentas, K., Liadopoulos, E., Maris, C., Spyrou, C., Stavraka, T., Synolakis, C. and Zerefos C., 2024. An Integrated System for Monitoring the Effects of Climate Change on the Monuments of Delos. The use of Earth Observation for Natural and Cultural Heritage ESA/ESRIN, 5-16 October 2024, Frascati, Italy.

CA26. Chadoulis, R.-T., Aslanoğlu, S. Y., Charalampous, G., Herrero-Anta, S., Herrero del Barrio, C., Kouklaki, D., Moustaka, A., Mytilinaios, M., Papetta, A., Solomos, S., Gkikas, A., Spyrou, C., Papadimitriou, N., Vandenbussche, S., and **Fountoulakis, I.**: Desert dust outbreaks at the Mediterranean Basin: Optical properties and impact on surface solar radiation, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-569, https://doi.org/10.5194/ems2024-569, 2024.

CA27. Solomos, S., Spyrou, C., Bartsotas, N. S., Kalogeri, C., **Fountoulakis, I.**, Zerefos, C. S., Aslanoğlu, Y., Chadoulis, R.-T., Charalampous, G., Herrero-Anta, S., Herrero del Barrio, C., Kouklaki, D., Moustaka, A., Mytilinaios, M., and Papetta, A.: Development of METAL-WRF model for the description of mineral dust processes in the atmosphere based on NASA's EMIT satellite retrievals, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-176, https://doi.org/10.5194/ems2024-176, 2024.

CA28. Mytilinaios, M., Amodeo, A., De Rosa, B., Papagiannopoulos, N., Papanikolaou, C.-A., Aslanoglu, Y., Chadoulis, R.-T., Charalampous, G., **Fountoulakis, I.**, Kouklaki, D., Moustaka, A., Papetta, A., Solomos, S., and Mona, L.: Study of optical and microphysical properties of atmospheric desert dust observed over the Italian peninsula by remote sensing techniques, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-899, https://doi.org/10.5194/ems2024-899, 2024.

CA29. Pantazis, C., Solomos, S., Maneas, G., Centrito, M., Marino, G., Roggero, P. P., Mihail, J., **Fountoulakis, I.**, Kapsomenakis, J., Gkisakis, V., Nastos, P., Kourgialas, N., and Zerefos, C. S.: Agrometeorological assessment of olive cultivation practices in Messenia, Peloponnese, under climate change, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-107, https://doi.org/10.5194/ems2024-107, 2024.

CA30. Kazadzis, S. and the **COST action Harmonia Core group**: Harmonia COST Action: Overview of aerosol optical depth calibration and homogenization activities, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-69, https://doi.org/10.5194/ems2024-69, 2024.

CA31. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Marenco, F., Derimian, Y., Karpasitis, A., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: Assessment of Dust Impact on Shortwave Surface Irradiance: A Seven-Year Study at Agia Marina Xyliatou, Cyprus, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-610, https://doi.org/10.5194/ems2024-610, 2024.

CA32. Charalampous, G., Fragkos, K., **Fountoulakis, I.**, Marenco, F., Derimian, Y., Karpasitis, A., Nisantzi, A., Mamouri, R.-E., Hadjimitsis, D., and Kazadzis, S.: Assessment of Dust Impact on Shortwave Surface Irradiance: A Seven-Year Study at Agia Marina Xyliatou, Cyprus, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-610, https://doi.org/10.5194/ems2024-610, 2024.

CA33. Papadimitriou, N., **Fountoulakis, I.**, Papachristopoulou, K., Gkikas, A., Kazadzis, S., Kapsomenakis, J., and Zerefos, C.: Parameterization of the direct and diffuse surface solar radiation components in the Global Solar Energy Estimator (GSEE) and related uncertainties in the energy production simulations, EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-518, https://doi.org/10.5194/ems2024-518, 2024.

CA34. Eleftheratos, K., Zerefos2, C., Kapsomenakis, J., Gkikas, A., **Fountoulakis, I.**, Joeckel, P., Dameris, M., Misios, S.: Impact of peculiar years 2020, 2021, 2022 in the Antarctic ozone hole trends, Quadrennial Ozone Symposium, Boulder, Colorado, 15–19 July 2024.

CA35. **Fountoulakis, I.**, Eleftheratos, K., Kapoulas, A., Kouklaki, D., Papadimitriou, N., Gkikas, A., Zerefos, C.: Twenty years of total ozone and spectral UV measurements by a Brewer spectroradiometer in Athens, Greece, Quadrennial Ozone Symposium, Boulder, Colorado, 15–19 July 2024.

CA36. Papachristopoulou, K., **Fountoulakis, I.**, Hülsen, G., Gröner, J., Kouklaki, D., Masoom, A., Raptis, I.-P., Zerefos, C.S., Kazadzis, S.: Solar UV Radiation Nowcasting and Short-term Forecasting System Based on Earth Observation Data: Evaluation during the UVCIII Campaign, International Radiation Symposium 2024, Hangzhou, China, June 17 – 21, 2024

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CA109. A. Natsis, **I. Fountoulakis**, N. Siomos, T. Drosoglou and A. Bais: Twenty years of UV aerosol optical depth measurements by a Brewer spectrophotometer over Thessaloniki, Greece, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018

CA110. **I. Fountoulakis**, A. Natsis, N. Siomos, T. Drosoglou, A. Bais, D. Balis and S. Kazadzis: Measurements of the aerosol single scattering albedo in the UV over Thessaloniki, Greece, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018

CA111. A. Emmanouilidis, **I. Fountoulakis**, K. Tourpali, A. Natsis, I. Logothetis and A. Bais: Global Projections of the solar erythemal UV radiation in the 21st century, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, October 15-17, 2018

CA112. T. Drosoglou, N. Siomos, **I. Fountoulakis**, A. Natsis, and A.F. Bais: MAX-DOAS aerosol retrievals with the aid of co-located lidar profiles and comparisons with aerosol optical depth from Brewer spectrophotometer and CIMEL sun photometer, EGU, General Assembly, Vienna 8-13 April, 2018.

CA113. K. Fragkos, I. Petropavlovskikh, M. Dotsas, A. Bais, M. Taylor, D. Hurtmans, **I. Fountoulakis**, M. E. Koukouli, D. Balis, and M. Stanek: Umkehr ozone profiles over Thessaloniki and comparison with satellite overpasses, EGU, General Assembly, Vienna 8-13 April, 2018.

2016

CA114. M. M. Zempila, M. Taylor, M. E. Koukouli, C. Lerot, A. Bais, K. Fragkos, **I. Fountoulakis**, D. Balis, M. van Roozendael, N. Kouremeti, and S. Kazadzis: Evaluation of Satellite Total Ozone Observations with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P, Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016

CA115. M. M. Zempila, M. Taylor, M. E. Koukouli, **I. Fountoulakis**, A. Bais, A. Arola, J. van Geffen, M. van Weele, R. van der A, C. Meleti, D. Balis, N. Kouremeti, and S. Kazadzis: Evaluation of Satellite Photobiological Effective Dose Products with a ground-based NILU-UV Radiometer: in preparation for TROPOMI/S5P, Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016

CA116. M. M. Zempila, M. E. Koukouli, A. Bais, A. Arola, **I. Fountoulakis**, N. Kouremeti, S. Kazadzis,and D. Balis: Evaluation of OMI Surface UV Irradiances against NILU-UV Measurements: in preparation for TROPOMI/S5P,.Atmospheric Composition Validation and Evolution - ACVE 2016, ESA-ESRIN, Italy, 18 - 20 October 2016

CA117. N. Peinado-Galan, O. Garcia, X. Calbet, E. Lopez-Baeza, E. Sepulveda, M. Koukouli, I. Zyrichidou, **I. Fountoulakis**, D. Balis, A. Bais, A. Redondas, T. Karppinen, J. López-Solano, and B. Hernández-Cruz: Comparison of IASI/MetopA and OMI/Aura ozone column amounts with eubrewnet ground-based measurements, EUMETSAT Conference 2016, Darmstad, Germany, 26 - 30 September 2016

CA118. F. Gkertsi, A. Bais, T. Drosoglou, K. Fragos and **I. Fountoulakis**: Total ozone data retrieval from the Phaethon DOAS system, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016

CA119. M. Zempila, M.Taylor, A. Bais, **I.Fountoulakis**, S. Kazadzis and K. Fragkos: Introducing a cloud screening detector using global horizontal irradiances in UV and PAR in Thessaloniki, Greece, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016

CA120. K. Fragkos, M.Taylor, A. Bais, **I. Fountoulakis**, K. Tourpali, C. Meleti and M. M. Zempila: Multi-decadal trend analysis of total columnar ozone over Thessaloniki, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016, Thessaloniki, Greece, 19 – 21 September 2016

CA121. **I. Fountoulakis**, A.F. Bais, K. Fragkos, C. Meleti, K. Tourpali, M.M. Zempila, and K. Garane : Effects of changes in aerosols, total ozone and clouds on the short- and long-term variability of the spectral solar UV irradiance over Thessaloniki, Greece, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA122. B. Hernández-Cruz, A. Redondas, M. Rodríguez Valido, J. López-Solano, S. F. León-Luis, V. Carreño, A. Berjón, D. Santana-Díaz, J. Rimmer, J. Gröbner, **I. Fountoulakis**, T. Karppinen, and H. Diémoz: A European Brewer Network: Web Tools for Ozone Data Process and Configuration Interface, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA123. M. E. Koukouli, C. Lerot, K. Fragkos, **I. Fountoulakis**, M. M. Zempila, M. Taylor, D. Balis, A. Bais, and M. van Roozendael: Validation of the long term ESA Ozone-CCI GODFIT_v3 Total Ozone Record using three different ground-based instruments at a Northern mid-latitude station, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA124. K. Fragkos, I. Petropavlovskikh, A.F. Bais, **I. Fountoulakis**, and M. Stanek: Umkehr ozone profiles in Thessaloniki and comparison with MLS overpasses, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA125. **I. Fountoulakis**, A. Redondas, A.F. Bais, J.J. Rodriguez-Franco, K. Fragkos, and A Cede: Dead time effect on the Brewer measurements of spectral UV irradiance and TOC: correction and estimated uncertainties, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA126. **I. Fountoulakis**, A.F. Bais, K. Lakkala, Z. Toth, V. De Bock, H. Diémoz, L. Doppler, U. Feister, K. Fragkos, J. Gröbner, A. Heikkilä, T. Karppinen, T. Koskela, J.M. San Atanasio, A.M. Siani, and A.R.D. Smedley: Temperature dependence of the Brewer spectral UV and total ozone column measurements, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA127. M.M. Zempila, M. Taylor, M.E. Koukouli, A. Bais, C. Lerot, K. Fragkos, **I. Fountoulakis**, T. Drosoglou, F. Gkertsi, S. Kazadzis, D. Balis, and M. van Roozendael: High frequency retrieval of total ozone from a ground-based NILU-UV radiometer using a neural network model: validation of the model and evaluation of satellite observations, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

CA128. N. Peinado-Galán, X. Calbet, O.E. García, E. López-Baeza, A. Redondas, E. Sepúlveda, M. E. Koukouli, I. Zyrichidou, **I. Fountoulakis**, D. Balis, A. Bais, T. Karppinen, J. López-Solano, B. Hernández-Cruz, and M. E. Sanromá: Quality assessment of IASI/Metop-A and OMI/Aura ozone column amounts by using EUBREWNET ground-based measurements, Quadrennial Ozone Symposium 2016, Edinburgh, United Kingdom, 4–9 September 2016

2015

CA129. A. Kazantzidis, A.Smedley, R. Kift, J. Rimmer, J. Berry, **I. Fountoulakis**, T. Koskela, L. E. Rhodes, and A. R. Webb: A database of solar UV availability across Europe, European Society of Photobiology 2015 Congress, Aveiro, Portugal, 31 August - 4 September, 2015

CA130. K. Fragkos, A.F. Bais, **I. Fountoulakis**, D.S. Balis, K. Tourpali, and C. Meleti: Effects of extreme total column ozone events on UV solar radiation in an urban environment, 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015

CA131. **I. Fountoulakis**, A.F. Bais, K. Tourpali, and S. Misios: Projected changes in solar UV radiation over the high latitudes of the southern and the northern hemisphere, 26th IUGG General Assembly 2015, Prague, Czech Republic, 22 June – 2 July, 2015

2014

CA132. Bais A., Kazantzidis A., Giannaros T., Kazadzis S., Nikitidou E., Zempila M.M., Tzoumanikas P., Salamalikis V., Melas D., Zerefos C., Fragkos K., **Fountoulakis I.**, Drosoglou T. and Kotti M.C.: The Greek Solar Energy Network, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

CA133. Zempila M.M., Bais A., Kouremeti N., Meleti C. and **Fountoulakis I.**: Measurements of UV Solar Radiation and Estimated Products in Thessaloniki from a NILU-UV multichannel radiometer, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

CA134. Fragkos K., Bais A.F., Meleti C., **Fountoulakis I.**, Tourpali K., Balis D. and Zerefos C.S.: Variability of a thirty-year record of total ozone derived from a Brewer spectrophotometer at Thessaloniki and the SBUV version 8.6, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

CA135. **Fountoulakis I.**, Bais A.F., Fragkos K., Meleti C., Zempila M.M., Kouremeti N., and Tourpali K.: Long-term trends and climatology of spectral surface UV irradiance at Thessaloniki, Greece, 12th International Conference of Meteorology, Climatology and Atmospheric Physics, COMECAP 2014, Heraklion, 28 May – 31 May 2014

2013

CA136. Bais A.F., Giannaros T.M., Kazantzidis A., Melas D., Fragkos K., **Fountoulakis I.** and Nikitidoy E., The helenic network of solar energy: evaluation of short term predictions in comparison to measurements, 13th International Conference on Environmental Science and Technology (CEST), 5-7 September, 2013, Athens, Greece

CA137. **I. Fountoulakis**, A. F. Bais, K. Fragkos, S. Misios, and K. Tourpali, Projections of UV irradiation over an Arctic Ocean region using ozone and surface reflectivity from five Earth System Models, DACA 2013, Davos, 8 – 12 July 2013

2012

CA138. A.F. Bais, A. Kazantzidis, P. Tzoumanikas, E. Nikitidou, T. Giannaros, D. Melas, C. Meleti, H. Kambezidis, V. Salamalikis, K. Fragkos, and **I. Fountoulakis**, Estimation of solar irradiance from satellite data and numerical weather predictions over Greece, International Radiation Symposium 2012, Dahlem Cube, Berlin, Germany, 6 – 10 August 2012

Annex IV - List of Journals for which IF has been a reviewer

- Acta Geophysica (Springer)
- African Journal of Environmental Science and Technology (AJ)
- Annales Geophysicae (Copernicus)
- Applied Sciences (MDPI)
- Atmosphere (MDPI)
- Atmospheric Chemistry and Physics (Copernicus)
- Atmospheric Environment (Elsevier)
- Atmospheric Measurement Techniques (Copernicus)
- Earth and Space Science (Wiley)
- Earth System Science Data (Copernicus)
- Energies (MDPI)
- Engineering Applications of Artificial Intelligence (Elsevier)
- Environmental Science and Pollution Research (Springer)
- Environment, Development and Sustainability (Springer Nature)
- Indian Journal of Science & Technology (ISEE)
- International Journal of Digital Earth (Taylor & Francis)
- International Journal of Sustainable Energy (Taylor & Francis)
- Journal of Arid Environments (Elsevier)
- Journal of King Saud University – Science (Elsevier)
- Journal of Quantitative Spectroscopy and Radiative Transfer (Elsevier)
- Measurement: Digitalization (Elsevier)
- Measurement Science and Technology (IOP science)
- Metrologia (IOP science)
- Nature Communications (Springer)
- Nature Scientific Reports (Springer)
- Photochemical & Photobiological Sciences (Springer)
- Photochemistry and Photobiology (Wiley)
- Optoelectronics and Advanced Materials-Rapid Communications (National Institute of Optoelectronics)
- Remote Sensing (MDPI)
- Remote Sensing of Environment (Elsevier)
- Rendiconti Lincei - scienze fisiche e naturali (Elsevier)
- Science of the Total Environment (Elsevier)
- Sensors (MDPI)
- Stochastic Environmental Research and Risk Assessment (Springer Nature)
- Sustainability (MDPI)
- The European Physical Journal Plus (Springer)
- Theoretical and Applied Climatology (Springer)

Annex V - List of research projects

Working period	Role	Project	Source	Project period
06/2026 - present	**Advisor**	SHIPAIR	Hellenic Foundation For Research & Innovation	2026 - 2028
06/2026 - present	Researcher, **WP leader**	The Climate Observatory of Peloponnese	European Regional Development Fund (Project Call reference PEL 62).	2026 - 2029
06/2025 – present	Researcher, **PI**	ReEnergy-MED	European Centre for Medium-Range Weather Forecasts (ECMWF)	2025 - 2027
03/2026 – 06/2026	Researcher	"CACTUS: Copernicus Atmospheric Composition Training and User Guidance Service" – EUMETSAT	EUMESTAT	2025 - 2027
09/2025 – 12/2025	Researcher	CARMINE	Horizon Europe	2024 - 2028
10/2024 – 07/2025	Researcher	OLIVE-ALARM	Ministry of Rural development and food	2022 - 2025
01/2025 - present	Researcher	C3S National Collaboration Programme (C3S-NCP)	European Centre for Medium-Range Weather Forecasts (ECMWF)	2024 - 2026
04/2024 – 06/2026	Researcher, **WP leader**	Development and installation of an integrated system for the monitoring of the impacts of climatic changes on the monuments of Delos.	Partnership of charitable institutions "Protovoulia21"	2024 - 2026
09/2023 – 05/2026	Researcher	National Network for Climate Change and its Impact (CLIMPACT II)	General Secretariat for Research and Innovation	2023 - 2026
07/2023 – 07/2025	Researcher	Sustainable Approaches to LAnd and water Management in MEditerranean Drylands (SALAM-MED	European Union PRIMA-MED	2022 - 2025
11/2022 - present	Researcher, **WG co-leader**	CA21119 - International network for harmonization of atmospheric aerosol retrievals from ground based photometers (Harmonia)	European Union COST Action	2022 - 2026
09/2022 – 12/2022 09/2023 – 10/2023	Researcher	Measuring atmospheric parameters affecting spectral solar irradiance and solar energy (ASPIRE)	Hellenic Foundation for Research and Innovation	2021 - 2023
11/2021 – 10/2022	Researcher	EuroGEOSS Showcases: Applications powered by Europe (E-SHAPE)	HORIZON 2020	2019 - 2022
11/2020 – 10/2021 11/2022 – 12/2024	Researcher	EXCELSIOR CoE – ERATOSTHENES: Excellence Research Centre for Earth Surveillance and Space-Based Monitoring of the Environment	H2020-EU.4.a. - Teaming of excellent research institutions and low performing RDI regions	2019 - 2026
01/2018 – 11/2020	Researcher	Espletamento di attività tecniche inerenti la misura della radiazione solare ultravioletta per l' avvio di un laboratorio ottico, di competenza della Sezione aria ed atmosfera	Agenzia regionale Per la Protezione dell'Ambiente della Valle d' Aosta (ARPA)	2018 - 2020
06/2018 – 02/2020	Researcher	Optimization and application of methods for ground-based remote sensing of aerosols and ozone in the lower troposphere for investigating their variability	Human Resources Development, Education and Lifelong Learning 2014-2020 (European Social Fund - ESF): MIS 5004486	2018 - 2020
09/2014 –12/2017 09/2012 – 12/2013	Researcher	eEnviPer - "A single multi-purpose SOA platform that delivers environmental permissions services through the cloud of e-Government services and applications".	CIP - Competitiveness and innovation framework programme (CIP), (2007-2013)	2012 - 2017
09/2017 – 12/2017	Researcher	Brewer Total Ozone Columns and Aerosol Optical Depths for Omi Validation	Fundación Canaria General de Universidad de La Laguna G-38083408 (ESA)	2017 - 2018
09/2016 – 12/2016	Researcher	Traceability for atmospheric total column ozone (ATMOZ)	European metrology Research Program, jointly funded by the EMRP participating countries within EURAMET and the European Union.	2014 - 2017
02/2016 – 08/2016	Researcher	QA4ECV - Quality Assurance for Essential Climate	European Union FP7 Space	2014 – 2017

		Variables	2013-1 Project	
01/2014 – 12/2017	Researcher	COST 1207 – EuBrewNet "A European Brewer Network"	European Union COST Action	2014 - 2017
01/2014 – 12/2014	Researcher	SOLID (First European SOLar Irradiance Data Exploitation)	European Union FP7 Space 2012-1 Project	2012 -2015
06/2011 – 07/2012	Post-graduate Research Assistant	EDHE – "Hellenic Network of Solar Energy".	European Commission – Communications Networks, Content and Technology.	2011 - 2013
03/2011 – 04/2011	Post-graduate Research Assistant	Stratospheric-Climate Links with Emphasis on the Upper Troposphere and Lower Stratosphere (SCOUT-O3).	European Union FP6 – SUSTDEV.	2004 - 2009
11/2010	Post-graduate Research Assistant	Absolute calibration of UVA and UVB actinometers.	Lithouanian Hydrometeorological Service.	2010
04/2010 – 10/2010	Post-graduate Research Assistant	Comparison between ground based and satellite measurements of the total column of NO2, NO2VAL.	ESA	2007 - 2009