

PERSONAL INFORMATION	
<b>SURNAME</b>	VOUDOURI
<b>NAME</b>	KALLIOPI ARTEMIS
<b>DATE OF BIRTH</b>	12.04.1990
<b>PLACE OF RESIDENCE</b>	THESSALONIKI
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## PERSONAL STATEMENT

**Dr Voudouri Kalliopi Artemis** finished her PhD in the Laboratory of Atmospheric Physics of the Aristotle University of Thessaloniki, Greece in 2019. She is a member of REACT team as a Post-Doc Researcher from 2022. She has more than 10 years of experience in performing measurements with lidar systems including systematic calibration, and maintenance. Her main scientific interests lie in the field of Atmospheric Environment and Physics of Atmosphere, and more specifically on aerosol and clouds geometrical/optical properties, using ground-based data from active and passive remote sensing. Through her participation in 4 scientific projects within the Laboratory of Atmospheric Physics as a scientific associate, she has developed a 6 year long working relationship with the Laboratory and now is working on the project “PANGAEA Cal/Val Centre for enhancing Earth Observation R&I in the Mediterranean”. In total, she has co-authored 12 publications in peer-reviewed journals (6 out of 14 as first author) and over 63 in proceedings of international scientific conferences (27 of which as a first author). She serves as a peer reviewer for 6 scientific journals and she has co-supervised 7 master Thesis. She has also participated in total 6 experimental campaigns (e.g, COVID-19 NRT lidar measurement campaign, 1<sup>st</sup> PANACEA Measurement campaign summer 2019, 2<sup>nd</sup> PANACEA Measurement campaign winter 2020), being responsible for the data acquisition and the lidar processing and has participated in the organizing committee of the 1<sup>st</sup> European Lidar Conference.

Her expertise and collaboration skills have been recognized from ACTRIS/EARLINET, assigning her to lead the **Working Group on aerosol typing and characterization** and the **Working Group on Lidar Developments** through the organization and consolidation of the EARLINET remote sensing community.

## MOBILITY

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**2021-  
present** Post-Doc Researcher in ALOMAR/Andoya Space Center

## CURRENT POSITION

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**2019-  
present** Post-Doc Researcher in the REACT team PI: Reasearch Director Dr Vassilis Amiridis (PI) Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS), National Observatory of Athens (NOA), Greece

Post-Doc Researcher in the LAP team PI: Prof Dimitris Balis Laboratory of Atmospheric Physics (LAP), Aristotle University of Thessaloniki (AUTH), Greece

## EDUCATION

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**12.2015 -  
11.2019** Laboratory of Atmospheric Physics, Physics Department, Aristotle University of Thessaloniki, Greece, Thesis: Optical and geometrical properties of clouds and aerosols using ground-based and satellite remote sensing techniques, **Doctor of Philosophy (PhD)**

**10.2013 -  
10.2015** Physics Department, Aristotle University of Thessaloniki, Greece, Comparison of aerosol Backscatter and Extinction profiles based on the EARLINET database and the Single Calculus Chain for Thessaloniki Greece (2001-2007), **Master degree in Environmental Physics, Grade: 9.16**

**09.2008 -  
07.2013** Physics Department, Aristotle University of Thessaloniki, Greece, Thesis: Study of biomass burning aerosols in the Mediterranean basin using satellite data, **Physics' Bachelor Degree, Grade: 6.95**

## IMPORTANT PUBLICATIONS

- **Voudouri KA**, Michailidis K, Koukouli M-E, Rémy S, Inness A, Taha G, Peletidou G, Siomos N, Balis D, Parrington M. Investigating a Persistent Stratospheric Aerosol Layer Observed over Southern Europe during 2019. *Remote Sensing*. 2023; 15(22):5394. <https://doi.org/10.3390/rs15225394>.
- Tsekeri, A., Gialitaki, A., Di Paolantonio, M., Dionisi, D., Liberti, G. L., Fernandes, A., Szkop, A., Pietruczuk, A., Pérez-Ramírez, D., Granados Muñoz, M. J., Guerrero-Rascado, J. L., Alados-Arboledas, L., Bermejo Pantaleón, D., Bravo-Aranda, J. A., Kampouri, A., Marinou, E., Amiridis, V., Sicard, M., Comerón, A., Muñoz-Porcar, C., Rodríguez-Gómez, A., Romano, S., Perrone, M. R., Shang, X., Komppula, M., Mamouri, R.-E., Nisantzi, A., Hadjimitsis, D., Navas-Guzmán, F., Haeefe, A., Szczepanik, D., Tomczak, A., Stachlewska, I. S., Belegante, L., Nicolae, D., **Voudouri, K. A.**, Balis, D., Floutsi, A. A., Baars, H., Miladi, L., Pascal, N., Dubovik, O., and Lopatin, A.: Combined sun-photometer–lidar inversion: lessons learned during the EARLINET/ACTRIS COVID-19 campaign, *Atmos. Meas. Tech.*, 16, 6025–6050, <https://doi.org/10.5194/amt-16-6025-2023>, 2023.
- **Voudouri KA**, Ntona MM, Kazakis N. Snowfall Variation in Eastern Mediterranean Catchments. *Remote Sensing*. 2023; 15(6):1596. <https://doi.org/10.3390/rs15061596>
- Gkikas, A., Gialitaki, A., Binietoglou, I., Marinou, E., Tsihla, M., Siomos, N., Paschou, P., Kampouri, A., **Voudouri, K. A.**, Proestakis, E., Mylonaki, M., Papanikolaou, C.-A., Michailidis, K., Baars, H., Straume, A. G., Balis, D., Papayannis, A., Parrinello, T., and Amiridis, V.: First assessment of Aeolus Standard Correct Algorithm particle backscatter coefficient retrievals in the eastern Mediterranean, *Atmos. Meas. Tech.*, 16, 1017–1042, <https://doi.org/10.5194/amt-16-1017-2023>, 2023.
- **Voudouri KA**, Michailidis K, Siomos N, Chatzopoulou A, Kouvarakis G, Mihalopoulos N, Tzoumaka P, Kelessis A, Balis D. Evaluation of Aerosol Typing with Combination of Remote Sensing Techniques with In Situ Data during the PANACEA Campaigns in Thessaloniki Station, Greece. *Remote Sensing*. 2022; 14(20):5076. <https://doi.org/10.3390/rs14205076>
- Dimitris Karagkiozidis, Martina Michaela Friedrich, Steffen Beirle, Alkiviadis Bais, François Hendrick, **Kalliopi Artemis Voudouri**, Ilias Fountoulakis, Angelos Karanikolas, Paraskevi Tzoumaka, Michel Van Roozendaal, Dimitris Balis, and Thomas Wagner, Retrieval of tropospheric aerosol, NO<sub>2</sub> and HCHO vertical profiles from MAX-DOAS observations over Thessaloniki, Greece, submitted in ACP.
- Adam, Mariana & Nicolae, Doina & Livio, Belegante & Stachlewska, I. & Janicka, Lucja & Szczepanik, Dominika & Mylonaki, Maria & Papanikolaou, Christiana & Siomos, Nikos & **Voudouri, Kalliopi Artemis** & Alados-Arboledas, Luca & Bravo-Aranda, Juan & Apituley, Arnoud & Papagiannopoulos, Nikolaos & Mona, Lucia & Mattis, Ina & Chaikovskiy, Anatoli & Sicard, Michaël & Muñoz-Porcar, Constantino & Peshev, Zahary. Biomass burning events measured by lidars in EARLINET. Part II. Results and discussions. 10.5194/acp-2020-647., 2020.
- Eleni Marinou, **Kalliopi Artemis Voudouri**, Ioanna Tsikoudi, Eleni Drakaki, Alexandra Tsekeri, Marco Rosoldi, Dragos Ene, Holger Baars, Vassilis Amiridis, and Charoula Meleti, Geometrical and microphysical properties of clouds formed in dust presence above Eastern Mediterranean, *Remote Sensing*. 2021;
- **Voudouri, K.A.**; Siomos, N.; Michailidis, K.; D’Amico, G.; Mattis, I.; Balis, D. Consistency of the Single Calculus Chain Optical Products with Archived Measurements from an EARLINET Lidar Station. *Remote Sens.* 2020, 12, 3969. <https://doi.org/10.3390/rs12233969>, 2020.
- **Voudouri, K. A.**, Giannakaki, E., Komppula, M., and Balis, D.: Variability in cirrus cloud properties using a Polly<sup>XT</sup> Raman lidar over high and tropical latitudes, *Atmos. Chem. Phys.*, 20, 4427–4444, <https://doi.org/10.5194/acp-20-4427-2020>, 2020.
- **Voudouri, K. A.**, Siomos, N., Michailidis, K., Papagiannopoulos, N., Mona, L., Cornacchia, C., Nicolae, D., and Balis, D.: Comparison of two automated aerosol typing methods and their

application to an EARLINET station, *Atmos. Chem. Phys.*, 19, 10961–10980, doi.org/10.5194/acp-19-10961-2019, 2019.

- Siomos, N., Balis, D. S., **Voudouri, K. A.**, Giannakaki, E., Filioglou, M., Amiridis, V., Papayannis, A., and Fragkos, K.: Are EARLINET and AERONET climatologies consistent? The case of Thessaloniki, Greece, *Atmos. Chem. Phys.*, 18, 11885–11903, <https://doi.org/10.5194/acp-18-11885-2018>, 2018.
- Marinou, E., Tesche, M., Nenes, A., Ansmann, A., Schrod, J., Mamali, D., Tsekeri, A., Pikridas, M., Baars, H., Engelmann, R., **Voudouri, K.-A.**, Solomos, S., Sciare, J., Groß, S., Ewald, F., and Amiridis, V.: Retrieval of ice-nucleating particle concentrations from lidar observations and comparison with UAV in situ measurements, *Atmos. Chem. Phys.*, 19, 11315–11342, <https://doi.org/10.5194/acp-19-11315-2019>, 2019.
- Proestakis, E., Amiridis, V., Marinou, E., Biniotoglou, I., Ansmann, A., Wandinger, U., Hofer, J., Yorks, J., Nowottnick, E., Makhmudov, A., Papayannis, A., Pietruczuk, A., Gialitaki, A., Apituley, A., Szkop, A., Muñoz Porcar, C., Bortoli, D., Dionisi, D., Althausen, D., Mamali, D., Balis, D., Nicolae, D., Tetoni, E., Liberti, G. L., Baars, H., Mattis, I., Stachlewska, I. S., **Voudouri, K. A.**, Mona, L., Mylonaki, M., Perrone, M. R., Costa, M. J., Sicard, M., Papagiannopoulos, N., Siomos, N., Burlizzi, P., Pauly, R., Engelmann, R., Abdullaev, S., and Pappalardo, G.: EARLINET evaluation of the CATS Level 2 aerosol backscatter coefficient product, *Atmos. Chem. Phys.*, 19, 11743–11764, <https://doi.org/10.5194/acp-19-11743-2019>, 2019.

## REVIEWING ACTIVITIES

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**2019-present** Referee in the following peer review journal (3): (i) Atmospheric Chemistry and Physics, IF: 5.414, (ii) Atmosphere, MDPI, IF: 2.397, (iii) Journal of Atmospheric and Oceanic Technology, ISSN: 0739-0572, IF =1.952

## TEACHING ACTIVITIES

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**2018 - present** (i) Laboratory assistant – Techniques of Atmospheric Measurements, Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki,  
(ii) Laboratory assistant – Environmental IT Tools, Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki  
(iii) Selected Tutor of the Single Calculus Chain winter school, held at CNR-IMAA (Italy), under subject: “optimized processing settings, generation of new products”.

## FELLOWSHIPS and AWARDS

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**2020-2023** **Scholarship:** 2nd Call for H.F.R.I. Research Projects to Support Post-Doctoral Researchers, member of the project “Groundwater depletion. Are Eco-friendly Energy Recharge Dams a solution?”, PI: Nerantzis Kazakis.

**07/2019 – 04/2021** **Scholarship:** Fellowship of Human Resources Development, Education and Lifelong Learning 2014 - 2020» in the context of the project “Study of the interaction of Aerosols and Clouds in the Eastern Mediterranean region with the synergistic use of groundbased and satellite remote sensing systems. ” (MIS 5047913).

**05/2017- 05/2019** **Scholarship:** of the General Secretariat for Research and Technology (GSRT) and Hellenic Foundation for Research and Innovation (HFRI) ”Scholarships programme for PhD candidates” for her PhD: “Optical and geometrical properties of clouds and aerosols using ground-based and satellite remote sensing techniques”

**RESEARCH GRANTS**

<b>Project Title</b>	<b>Funding source</b>	<b>Period</b>	<b>Role of the PI</b>
Twinning project: Study of aerosol/cloud properties in PANGEA climate observatory and archiving of knowledge, data and algorithms WP1 WP2 WP3 WP4 WP5	Funded by the European Union (grant agreement no. 101079201)	2022-Present	
Υποστήριξη λειτουργίας της αποστολής Sentinel-5P	Funded by EUROPEAN SPACE AGENCY (ESA) INITIATIVES	2023-Present	
Αξιολογήση των δορυφορικών μετρήσεων του ύψους των στρωματώσεων του SO <sub>2</sub>	Funded by EUROPEAN SPACE AGENCY (ESA) INITIATIVES	2023	
Groundwater depletion. Are Eco-friendly Energy Recharge Dams a solution?	Funded by ΕΛΙΔΕΚ, 2η Προκήρυξη Ερευνητικών έργων ΕΛ.ΙΔ.Ε.Κ. για την ενίσχυση Μεταδιδακτορικών Ερευνητών/τριών.	01/10/2022 - 22/08/2023	
PANGEA Cal/Val Centre for enhancing Earth Observation R&I in the Mediterranean	Funded by the European Union Grant Agreement (101079201)	2022-Present	Scientific associate
PANhellenic infrastructure for Atmospheric Composition and climatE change” (MIS 5021516) implemented under the Action “Reinforcement of the Research and Innovation Infrastructure” (PANACEA Infrastructure)	Co-financed by Greece and the European Union (European Social Fund - ESF)	2019- 2022	
Development of a methodology to delineate protection zones of Karst aquifers in Kozani region, Greece	National Resource	2019	
Monitoring and assessment of regional air quality in China using space observations, project of longterm Sino-European cooperation	Commission (Horizon 2020)	2017	
ACTRIS-2 Aerosols, Clouds and Trace gases Research Infrastructure	European Commission	2015 - 2017	

**CONFERENCES/WORKSHOPS/SCHOOLS**

KAV has participated in 6 European and International Conferences, having co-authored over 63 works in the proceedings, and has participated in more than 6 workshops and more than 6 Training schools.

**PAPERS SUBMITTED IN CONFERENCES**

- **K.A Voudouri**, N. Siomos, A. Gkikas, H. Baars, E. Marinou, P. Paschou and V. Amiridis, International Geoscience and Remote Sensing Symposium (IGARSS), July 2024

- Eleni Marinou, **K.A. Voudouri**, et al., ACROSS Mediterranean experiment for the cal/val of Earthcare mission, International Geoscience and Remote Sensing Symposium (IGARSS), July 2024
- **K.A Voudouri**, E. Marinou, I. Koutsoupi, K. Rizos, M. Tsihla, I. Tsikoudi, A. Battaglia, P. Kollias, V. Tzallas and V. Amiridis, Spatiotemporal variability and representativeness of aerosol and clouds over the PANhellenic GEophysical observatory of Antikythera, ACTRIS science week, June 2024
- **K.A Voudouri**, I. Koutsoupi, E. Marinou, M.E. Koukouli, A. Zacharou, I. Tsikoudi, A. Battaglia and D. Balis, Cloud vertical profiling and cloud types over Thessaloniki using active and passive remote sensing, ACTRIS science week, June 2024
- P. Paschou, E. Marinou, J. de Kloe, D.P. Donovan, G.J. van Zadelhoff, **K. A. Voudouri**, and V. Amiridis, Sensitivity study using ATLID lidar simulator and upcoming plans for the EarthCARE validation, ACTRIS science week, June 2024
- I. Koutsoupi, E. Marinou, **K.A. Voudouri**, I. Tsikoudi, P. Paschou, V. Amiridis, A. Battaglia, P. Kollias, E. Giannakaki, Cloud types and geometrical properties above the Mediterranean using decadal dataset, ACTRIS science week, June 2024
- I. Tsikoudi, A. Battaglia, C. Unal, **K.A Voudouri**, I. Koutsoupi, P. Kollias and E. Marinou, Simulations of Spectral Polarimetric Variables with T-matrix, ACTRIS science week, June 2024
- Michailidis K., Garane K., Karagkiozidis D., **Voudouri K.-A**, Peletidou G., Bais A., and Balis D., Extreme wildfires over northern Greece during summer 2023: Investigating the effects on aerosol optical properties and solar radiation, ACTRIS science week, June 2024
- G. Peletidou, **K.A Voudouri**, K. Michailidis and D. Balis, Thessaloniki's Lidar System upgrade with water vapor and fluorescence channels, ACTRIS science week, June 2024
- K. Michailidis, K. Garane, D. Karagkiozidis, G. Peletidou, **K.A. Voudouri**, A. Bais and D. Balis, Investigation of the effects of the Greek extreme wildfires of August 2023 over northern Greece on aerosol optical properties and solar radiation, HAAR meeting
- **Voudouri K.A.**, Marinou E., Tsikoudi I., Koutsoupi I., Battaglia A. and Kollias P. Evaluation of the CloudSat products with ACTRIS lidar/radar measurements over the Eastern Mediterranean, Proceedings of the 16th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Athens, 25-29 September 2023.
- Koutsoupi I., Marinou E., **Voudouri K.A.**, Tsikoudi, I., Paschou P., Amiridis V., Battaglia A., Kollias P., Giannakaki E. Geometrical and Microphysical Properties of Clouds above Eastern Mediterranean, Proceedings of the 16th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Athens, 25-29 September 2023.
- Ioanna Tsikoudi, Eleni Marinou, **Kalliopi Voudouri**, Ilianna Koutsoupi, Eleni Drakaki, Anna Kampouri, Ville Vakkari, Holger Baars, Elina Giannakaki, Maria Tomprou and Vassilis Amiridis, PBL height retrievals during ASKOS Campaign, Proceedings of the 16th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Athens, 25-29 September 2023.
- Eleni Marinou, Peristera Paschou, Ioanna Tsikoudi, Alexandra Tsekeri, Vassiliki Daskalopoulou, Dimitra Kouklaki, Nikos Siomos, Vassilis Spanakis, **Kalliopi Artemis Voudouri**, Thanasis Georgiou, Eleni Drakaki, Anna Kampouri, Kyriaki Papachristopoulou, Sotiris Mallios, Emmanouil Proestakis, Antonis Gkikas, Iliana Koutsoupi, Ioannis Panagiotis Raptis, Stelios Kazadzis, Holger Baars, Athina Floutsi, Razvan Pirloaga, Anca Nemuc, Franco Marengo, Maria Kazoudi, Vassilis Amiridis, and the ASKOS team, An Overview of the ASKOS Campaign in Cabo Verde, Proceedings

of the 16th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Athens, 25-29 September 2023.

- **K.A.Voudouri**, K. Michailidis, M.E.Koukouli, S. Rémy, A. Inness, G. Taha, G. Peletidou, N. Siomos, D. Balis and M. Parrington, Monitoring the persistent stratospheric aerosol layer observed over a Southern European lidar station during 2019, Proceedings of the European Lidar Conference, 13-15 September 2023, Cluj-Napoca, Romania.
- **K.A Voudouri**, E. Marinou, I. Koutsoupi, M.E. Koukouli, I. Tsikoudi, A. Battaglia and P. Kollias, Evaluation of the CloudSat products with ACTRIS lidar/radar measurements over the Eastern Mediterranean, Proceedings of the European Lidar Conference, 13-15 September 2023, Cluj-Napoca, Romania.
- **K.A Voudouri**, K. Michailidis, N. Siomos, A. Chatzopoulou, G. Kouvarakis, N. Mihalopoulos and D. Balis, Aerosol typing from remote sensing techniques and in situ data: Overview of the two PANACEA campaigns over Thessaloniki, Greece, 11<sup>th</sup> International Aerosol Conference, 4-9 September 2022, Athens, Greece.
- K. Michailidis, N. Siomos, **K. A. Voudouri**, K. Garane, A. Karanikolas, D. Karagkiozidis, A. Natsis, D. Balis, Vertical separation and profiling of individual aerosol species based on remote sensing instruments and look up tables of preset aerosol mixtures, 11<sup>th</sup> International Aerosol Conference, 4-9 September, 2022, Athens, Greece.
- **Kalliopi A. Voudouri**, Nikolaos Siomos, Georgia Peletidou, Konstantinos Michailidis, Anna Gialitaki, Athanasios Natsis, Maria E. Koukouli, Alkiviadis Bais, Dimitrios Balis, Investigating the Radiative Effects of a Persistent Stratospheric Aerosol Layer Observed over Thessaloniki, Greece, during 2019, INTERNATIONAL RADIATION SYMPOSIUM 2022, Thessaloniki, Greece, 4-8 July 2022.
- N. Siomos, D. Karagkiozidis, I. Fountoulakis, F. Gkertsis, D. Nikolis, **K. A. Voudouri**, K. Michailidis, K. Garane, A. Karanikolas, A. Natsis, A. F. Bais, D. Balis, Exploring the synergy of lidars and spectrometers and its potential to separate aerosol species and improve trace gas profiling, INTERNATIONAL RADIATION SYMPOSIUM 2022, Thessaloniki, Greece, 4-8 July 2022.
- K. Michailidis, **K.A. Voudouri**, N. Siomos and D. Balis, Temporal Variability of the Aerosol Properties Using a Cimel/Lunar Photometer over Thessaloniki, Greece: Synergy with the upgraded THELISYS Lidar System, International Laser Radar Conference, (ILRC 30), Big Sky Conference Center, Montana, USA on June 26th – July 1st, 2022.
- **K. A. Voudouri**, D. Nicolae, L. Mona, G. D’Amico, N. Papagiannopoulos, E. Marinou, A. Kampouri, J. Vasilescu, C. Talianu, I. Stachlewska, R. Fortuna, M. Sicard, A. Rodriguez, S. Romano, M. R. Perrone, A. Floutsi, X. Shang, S. Bohlmann, N. Siomos, A. Gialitaki, A. Tsekeri, D. Balis and V. Amiridis, REGIONAL CHANGES IN THE DOMINANT AEROSOL TYPE OVER EUROPE DURING THE ACTRIS COVID-19 CAMPAIGN, International Laser Radar Conference, (ILRC 30), Big Sky Conference Center, Montana, USA on June 26th – July 1st, 2022.
- **K. A Voudouri**, P. Fountoukidis, N. Siomos, C. Dema, D. Balis and G. D’Amico, Sensitivity Study on the Performance of the Single Calculus Chain Aerosol Layering Module, International Laser Radar Conference, (ILRC 30), Big Sky Conference Center, Montana, USA on June 26th – July 1st, 2022.
- **K.A Voudouri**, N. Siomos, K. Michailidis, M.E. Koukouli, G. Peletidou and D. Balis, Investigating the geometrical and optical properties of the persistent stratospheric aerosol layer observed over Thessaloniki, Greece during 2019, International Laser Radar Conference, (ILRC 30), Big Sky Conference Center, Montana, USA on June 26th – July 1st, 2022.

- N. Siomos, I. Fountoulakis, F. Gkertsis, **K. A. Voudouri**, K. Michailidis, K. Garane, D. Karagkiozidis, A. Karanikolas, A. Natsis, A. F. Bais, D. Balis, Presenting ASSA: An Aerosol Species Separation Algorithm based on the synergy of lidars and spectrophotometers, Proceedings of the European Lidar Conference, 16-18 November 2021, Granada, Spain.
- **K.A. Voudouri**, Britta Schäfer, Martin Flügge, Ingrid Hanssen, and Michael Gausa, Investigating the relationship between ice crystals clouds and the source of underlying aerosols, Proceedings of the European Lidar Conference, 16-18 November 2021, Granada, Spain.
- **K.A. Voudouri**, N. Siomos, K. Michailidis, A. Chatzopoulou, A. Natsis, I. Fountoulakis, A. Karanikolas, G. Kouvarakis, K. Garane, A. Bais and D. Balis, Aerosol typing from remote sensing techniques and in situ data over Thessaloniki, Greece, Proceedings of the European Lidar Conference, 16-18 November 2021, Granada, Spain.
- **K.A. Voudouri**, D. Nicolae, L. Mona, G. D'Amico, V. Amiridis, E. Marinou, A. Gialitaki, A. Kampouri, A. Tsekeri, M. Sicard, A. Rodriguez, S. Romano, M. R. Perrone, A. Floutsi, X. Shang, S. Bohlmann, N. Papagiannopoulos, N. Siomos, C. Talianu, I. Stachlewska, R. Fortuna, M. Mylonaki, and D. Balis, Aerosol typing over Europe during the COVID-19 campaign: Possible changes in the dominant aerosol types during the lockdown, Proceedings of the European Lidar Conference, 16-18 November 2021, Granada, Spain.
- Fountoukidis P, Biskas C., **Voudouri K.A.**, Siomos N. and Balis D., LONG TERM VARIABILITY OF THE AEROSOL INTENSIVE PROPERTIES OVER THESSALONIKI, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- **Voudouri K.A.**, Siomos N., Michailidis K., Fountoulakis I., Natsis A., Karanikolas A., Garane K., Bais A., Balis D., SYNERGY OF REMOTE SENSING TECHNIQUES FOR AEROSOL TYPING OVER THESSALONIKI, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- **Voudouri K.A.**, Marinou E., Gialitaki A., Tsihla M., Kampouri A., Amiridis V., Baars H., Yin Z., and Meleti C., AEROSOL TYPING AND CHARACTERIZATION DURING PRE-TECT CAMPAIGN OVER FINOKALIA, CRETE, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- **Voudouri K. A.**, Ntona M. M. and Kazakis N., INVESTIGATING THE SNOW WATER EQUIVALENT IN GREECE, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- Koukouli, M.E., Karagkiozidis, D., Michailidis, K., Siomos, N., **Voudouri, K.A.**, Mermigkas, M., Topaloglou, C., Skoulidou, I., Chatzopoulou, A., Symeonidis, P., Christelis, E., Balis, D. S. and Bais, A., Air quality over Thessaloniki Greece revealed by a PANACEA summer and winter observational campaign; an overview, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- Koukouli, M.E., Garane, K., Karagkiozidis, D., Gkertsis, F., Michailidis, K., Siomos, N., **Voudouri, K. A.**, Mermigkas, M., Topaloglou, C., Sarakis, C., Balis, D. S. and Bais, A., S5P/TROPOMI atmospheric products over Thessaloniki, Greece; validation activities of the Laboratory of Atmospheric Physics, AUTH., Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- Marinou E., **Voudouri K.A.**, Rosoldi, M., Tsikoudi I., and Meleti C., Geometrical and microphysical properties of clouds above Eastern Mediterranean during Pre-TECT, Proceedings of the 15th



International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.

- Antonis Gkikas, Anna Gialitaki, Ioannis Binietoglou, Emmanouil Proestakis, Peristera Paschou, Nikos Siomos, Anna Kampouri, Stavros Solomos, Panagiotis Kosmopoulos, **Kalliopi Artemis Voudouri**, Maria Mylonaki, Dimitris Balis, Alexandros Papayannis and Vassilis Amiridis., First validation of AEOLUS L2A products over PANACEA sites, Proceedings of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 26-29 September, Ioannina, Greece, 2021.
- **Voudouri K.A.**, Siomos N., Karanikolas A., Natsis A., Fountoulakis I., Kouvarakis G., Michailidis K., Garane K., Bais A. and Balis D., Overview of the two PANACEA campaigns for Thessaloniki station: Aerosol typing from remote sensing techniques and in situ data, Second scientific conference PANACEA, Web Conferencing, 29 September – 1 October 2020.
- N. Siomos, **K.A Voudouri**, I. Fountoulakis, K. Michailidis, A. Karanikolas, K. Garane, A. Natsis, A. Bais, and D. Balis, Investigating variations in the aerosol load over Thessaloniki during the COVID-19 lock-down period in Greece using the remote sensing infrastructure of PANACEA, Overview of the two PANACEA campaigns for Thessaloniki station: Aerosol typing from remote sensing techniques and in situ data, Second scientific conference PANACEA, Web Conferencing, 29 September – 1 October 2020.
- Chatzopoulou A., **Voudouri K.A.**, Symeonidis P., Christelis E. and Balis D., Investigating variations in the PM2.5 concentrations over Thessaloniki station during the PANACEA campaigns using different measurement techniques, Second scientific conference PANACEA, Web Conferencing, 29 September – 1 October 2020.
- **Kalliopi Artemis Voudouri**, Konstantinos Michailidis, Nikolaos Siomos and Dimitrios Balis, Aerosol Characterization over Thessaloniki lidar station during the PANACEA campaign, ACTRIS Remote Sensing Workshop, November 18-22, Rome, Italy, 2019, <http://www.actris.eu/Events/Events/ACTRISRemoteSensingWorkshop2019.aspx>
- N. Siomos, D.S. Balis, **K.A. Voudouri**, K. Michailidis, Investigating variations in the aerosol load during the COVID-19 lockdown period in Greece using the remote sensing infrastructure of PANACEA, Aerosol Remote Sensing Workshop, 6-8 Jul, 2020.
- **Kalliopi Voudouri et al.**, Automatic typing of the aerosol load observed over Europe during the COVID-19 campaign - Did something change in the aerosol types during the lockdown?, Aerosol Remote Sensing Workshop, 6-8 Jul, 2020.
- Nikolaos Siomos, Dimitrios Balis, Alkiviadis Bais, Mariliza Koukouli, Katerina Garane, **Kalliopi A. Voudouri**, Fani Gkertsis, Athanasios Natsis, Dimitrios Karagkiozidis, Marios Mermigkas, Ilias Fountoulakis, Towards an Algorithm for near real-time profiling of Aerosol Species, Trace Gases, and Clouds based on the synergy of Remote Sensing Instruments, ACTRIS Remote Sensing Workshop, November 18-22, 2019, <http://www.actris.eu/Events/Events/ACTRISRemoteSensingWorkshop2019.aspx>
- Michailidis K., Siomos N., Balis D., Koukouli M. E., **Voudouri K. A.**, Nanda S., de Graaf M., Veeffkind, J. P., Mamouri R.E., Gialitaki A., Validation of Aerosol Layer Height retrieved from TROPOMI / Sentinel-5 Precursor satellite using EARLINET lidar data, Copernicus Sentinel-5P Validation Team Workshop, 11-14 Nov., – ESA/ESRIN, Frascati (Rome), Italy, 2019.
- Siomos N., Balis D., Bais A., Koukouli M.E, Garane K., **Voudouri K.A.**, Gkertsis F., Natsis A., Karagkiozidis D., Fountoulakis I.: TOWARDS AN ALGORITHM FOR NEAR REAL TIME PROFILING OF AEROSOL SPECIES, TRACE GASES, AND CLOUDS BASED ON THE

SYNERGY OF REMOTE SENSING INSTRUMENTS, First scientific conference PANACEA, Manassaki Amphitheater University of Crete, Heraklion, 23 – 24 September 2019.

- Michailidis K., Siomos N., Balis D., Koukouli M. E., **Voudouri K. A.**, Tuinder O., Tilstra G., Wang P., de Graaf, M., Veeffkind, J. P., Validation of TROPOMI's/S5P and GOME-2/MetOp Aerosol Height products using the elevated height obtained from Thessaloniki lidar station during PANACEA campaign, First scientific conference PANACEA, Manassaki Amphitheater University of Crete, Heraklion, 23 – 24 September 2019.
- **Voudouri K. A.**, Michailidis K., Siomos N., Koukouli M. E. and Balis D.S., Aerosol characterization by automated typing methods over the Thessaloniki lidar station during the PANACEA campaign, First scientific conference PANACEA, Manassaki Amphitheater University of Crete, Heraklion, 23 – 24 September 2019.
- **K.A. Voudouri**, E. Giannakaki, M. Komppula, A. Gialitaki, A. Natsis and D. Balis, Monitoring ice crystals clouds: Investigation of the lidar depolarization ratios, Proceedings of the 29th International Laser Radar Conference (ILRC29), June 24-28, Hefei, Anhui, China, 2019.
- N. Siomos, D. Balis, A. Bais, M.E Koukouli, K. Garane, **K.A. Voudouri**, F. Gkertsis, A. Natsis, D. Karagiozidis 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, Proceedings of the 29th International Laser Radar Conference (ILRC29), June 24-28, Hefei, Anhui, China, 2019.
- K. Michailidis, N. Siomos, D. Balis, M.E. Koukouli, **K.A. Voudouri**, T. Olaf, G. Tilstra and W. Ping, Validation of the GOME-2 Absorbing Aerosol Height product using elevated layer top height obtained from Thessaloniki EARLINET station, Proceedings of the 29th International Laser Radar Conference (ILRC29), June 24-28, Hefei, Anhui, China, 2019.
- Drosoglou, T., Siomos, N., Fountoulakis, I., **Voudouri, K. A.**, Karagiozidis, D., Natsis, A., Hendrick, F., Balis, D., Bais, A. F., Marinou, E., Amiridis V. and Van Roozendaal, M.: Aerosol profile retrievals from O4 MAX-DOAS observations in Thessaloniki, Greece, and comparison with data from co-located lidar, Brewer and CIMEL, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, 2018
- Nikolaos Siomos, Ilias Fountoulakis, Athanasios Natsis, Dimitrios Karagiozidis, Theano Drosoglou, **Kalliopi Artemis Voudouri**, Alkiviadis Bais and Dimitris Balis, Aerosol classification based on the synergy of Brewer spectrophotometer measurements, lidar measurements, and wind backward-trajectories, Proceedings of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 15-17 October, Alexandroupolis, Greece, 2018
- **Voudouri K.A.**, Elina Giannakaki, Mika Komppula and Balis D.S., Cirrus clouds properties over three different geographical regions using Polly<sup>XT</sup> measurements, Proceedings of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 15-17 October, Alexandroupolis, Greece, 2018
- E.Giannakaki, E.Tetoni, A.Gialitaki, **K.A.Voudouri**, V.Amiridis, Aerosol and cloud properties during Pre-Tect campaign over Finokalia, Greece, Proceedings of the 1th European Laser Conference (ELC), June 2-4, Thessaloniki, Greece, 2018
- Theano Drosoglou, Nikolaos Siomos, **Kalliopi A. Voudouri**, Francois Hendrick, Dimitrios Balis, Alkis F. Bais and Michel Van Roozendaal, Synergy of lidar and MAX-DOAS observations for the improvement of aerosol extinction profile retrievals from O4 absorption, Proceedings of the 1th European Laser Conference (ELC), June 2-4, Thessaloniki, Greece, 2018
- **Kalliopi – Artemis Voudouri**, Anne Hirsikko, Elina Giannakaki, Mika Komppula and Dimitris Balis, Detecting cirrus clouds: Comparison of lidar and cloud radar retrievals, Proceedings of the 1th European Laser Conference (ELC), June 2-4, Thessaloniki, Greece, 2018.
- **Kalliopi – Artemis Voudouri**, Elina Giannakaki, Mika Komppula and Dimitris Balis, Οπτικές και γεωμετρικές ιδιότητες νεφών σε τρεις διαφορετικές γεωγραφικές περιοχές με μεθόδους τηλεπισκόπησης, 17<sup>ο</sup> Πανελλήνιο Συνέδριο Φυσικής, 15-18 Μαρτίου, Θεσσαλονίκη, 2018.

- Siomos N., **Voudouri K.**, Filioglou M., Michailoudis K., and D. Balis, Εφαρμογή μεθόδων ταξινόμησης σε οπτικές ιδιότητες αιωρούμενων σωματιδίων από δεδομένα Lidar στη Θεσσαλονίκη, 17<sup>ο</sup> Πανελλήνιο Συνέδριο Φυσικής, 15-18 Μαρτίου, Θεσσαλονίκη, 2018.
- Giuseppe D'Amico, Ina Mattis, Iannis Biniotoglou, Holger Baars, Lucia Mona, Francesco Amato, Panos Kokkalis, Alejandro Rodríguez-Gomez, Alex Papayannis, **Voudouri Kalliopi Artemis**, EARLINET Single Calculus Chain: new products overview, Proceedings of the 28 th International Laser Radar Conference(ILRC), June 25-30, Bucharest, Romania, 2017, EPJ Web of Conferences 176, 09014, 2018
- Proestakis, E., Amiridis, V., Kottas, M., Marinou, E., Biniotoglou, I., Ansmann, A., Wandinger, U., Yorks, J., Nowotnick, E., Papayannis, A., Pietruczuk, A., Apituley, A., Muñoz-Porcar, C., Bortoli, D., Dionisi, D., Mamali, D., Balis, D., Nicolae, D., Liberti, G., Baars, H., **Voudouri, K.A.**, Mona, L., Mylonaki, M., Perrone, M.R., João Costa, M., Sicard, M., Papagiannopoulos, N., Siomos, N., Burlizzi, P., Engelmann, R., Hofer, J. and Pappalardo, G.: EARLINET Validation of CATS L2 Product, EPJ Web of Conferences 176, 02005, doi: <https://doi.org/10.1051/epjconf/201817602005>, {ILRC 28}, 2018.
- Siomos N., Balis D., Koukouli M., **Voudouri K. A.**, Tuinder O., Tilstra G., Wang P., A comparison of the GOME2 Absorbing Aerosol Height product with the elevated layer top obtained from ground based lidar measurements in Thessaloniki, Proceedings of the 1th European Laser Conference (ELC), June 2-4, Thessaloniki, Greece, 2018
- Siomos N., **Voudouri K.A.**, Filioglou M., Giannakaki E., V. Amiridis, G. D' Amico and D. Balis, Consistency of the Single Calculus Chain for climatological studies using long-term measurements from Thessaloniki lidar station. Proceedings of the 28 International Laser Radar Conference (ILRC), June 25-30, Bucharest, Romania, 2017, EPJ Web of Conferences 176, 09007, 2018
- Siomos N., **Voudouri K.A.**, Filioglou M., Giannakaki E., V. Amiridis, G. D' Amico and D. Balis, Long term lidar measurements of aerosol properties over Thessaloniki Proceedings of the 28 th International Laser Radar Conference (ILRC), June 25-30, Bucharest, Romania, 2017, EPJ Web of Conferences 176, 05033, 2018
- **Voudouri K.A.**, Giannakaki E, Komppula M. and D.Balis, First results of cirrus clouds properties by means th of a Polly<sup>XT</sup> Raman Lidar at two measurement sites, Proceedings of the 28 International Laser Radar Conference (ILRC), 25-30 June, Bucharest, Romania, 2017, EPJ Web of Conferences 176, 05031, 2018
- **Voudouri, K.A.**; Siomos, N.; Giannakaki, E.; Amiridis, V.; D'Amico, G. & Balis, D. Karacostas, T.; Bais, A. & Nastos, P. T. (Eds.) Long-Term Comparison of Lidar Derived Aerosol Optical Depth Between Two Operational Algorithms and Sun Photometer Measurements for Thessaloniki, Greece Perspectives on Atmospheric Sciences, Springer International Publishing, 2017, 789-794, in the Proceedings of the 13th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), 19-21 September, Thessaloniki, Greece, 2016
- **Voudouri, K.A.**, Siomos, N., Giannakaki, E., Amiridis, V., D'Amico, G., and Balis, D.: Comparison of Aerosol Backscatter and Extinction Profiles Based on the EARLINET Database and The Single Calculus chain for Thessaloniki Greece (2001–2014), in: Proceedings of 27th International Laser Radar Conference (ILRC), 5–10 July 2015, PS C1–27, New York, United States, 2–15, 2015.

#### SCIENTIFIC ACHIEVEMENTS

- (i) Development of a cloud masking algorithm (Voudouri et al., 2020, ACP),
- (ii) Book chapter: Voudouri, K.A. et al., Long-Term Comparison of Lidar Derived Aerosol Optical Depth Between Two Operational Algorithms and Sun Photometer Measurements for Thessaloniki, Greece Perspectives on Atmospheric Sciences, Springer International Publishing, 789-794, 2017, <https://doi.org/10.1007/978-3-319-35095-0>.