

Curriculum Vitae and List of Publications of Dr. Eleni Marinou

PERSONAL INFORMATION

Name: Eleni Marinou

Date and place of birth: 05/12/1984, Athens, Greece

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Summary of research interest and achievements

Eleni Marinou (EM) graduated from the Applied Physics Department of the School of Applied Mathematical and Physical Sciences of the National Technical University of Athens in 2010. She received her M.Sc. in the field of “Environmental Physics” from the Physics Department of the Kapodistrian University of Athens (2013). She acquired her PhD diploma on the study of the vertical distribution of desert dust and condensation nuclei over the Mediterranean from the Aristotle University of Thessaloniki (2017). She has been conducting research at the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS) of the National Observatory of Athens (NOA) since 2010, focusing on the retrieval of atmospheric parameters using passive and active remote sensing techniques. Since 2018 she is in collaboration with the Aerosol and Clouds research group of the Institute of Atmospheric Physics of the German Aerospace Center (DLR), working on the characterization of cloud properties using airborne lidar and radar measurements.

Her main accomplishment is the development of global satellite-based climatologies of aerosols and clouds, focusing on the vertical distribution of desert dust properties and concentration over the Mediterranean, using complementary active and passive remote sensing techniques. She used the developed products in a variety of studies including the evaluation of atmospheric/dust-transport models and the production of new products from passive sensors. During the last years of her PhD, she developed new satellite-based products on CCN and IN concentration over the Mediterranean, using synergistically active and passive remote sensing techniques and evaluated them with airborne in situ measurements. In 2018, she was employed at the German Aerospace Center (DLR) and her research focused on the development of a new methodology for Aerosol – Cloud target classification using combined airborne Lidar – Radar measurements (Lidar – Radar mask), from the High Altitude and Long Range Research Aircraft (HALO) of DLR. She used the Lidar – Radar mask to investigate the cloud properties over North Atlantic during the NAWDEX campaign. Since 2010, she is actively involved in EARLINET, ACTRIS RI and PollyNET taking part in the development/evaluation of new aerosol related products and in experimental campaigns related with aerosol and cloud studies and hazards. She has participated in 7 international and national projects and 6 experimental campaigns related to aerosol and cloud processes. **She has 33 peer-reviewed publications in high impact-factor journals (2 as a first author) and 87 presentations in scientific conferences.**

Education

- **09/2002 – 11/2010: Diploma in Applied Mathematics and Physics**, National Technical University of Athens (NTUA), Greece. Adviser: Prof. Alexandros Papagiannis. Diploma thesis: “Climatology of the aerosol load over Athens using ground-based and satellite passive remote sensing techniques”.
- **12/2010 – 07/2013: M.Sc. in Environmental Physics and Meteorology**, Kapodistrian University of Athens (UOA), Greece. Adviser: Assoc. Professor. Maria Tombrou-Tzella. M.Sc. thesis: “Derivation of the aerosol mixing height from the space-borne lidar CALIPSO observations and their comparison with simulations of the Planetary Boundary Layer height by the WRF model. Experimental campaign ACEMED”. [University degree giving access to PhD].
- **12/2013 – 11/2017: PhD in Atmospheric Physics and Remote Sensing**, Aristotle University of Thessaloniki (AUTH), Greece. Adviser: Prof. Dimitrios Balis. Phd dissertation: “Estimates of the vertical distribution of desert dust and condensation nuclei over the Mediterranean, with the synergistic use of active and passive remote sensing techniques”.

Professional Positions

- 2020 - Today: Postdoctoral researcher, Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens (NOA)

- 2018 - 2020: Postdoctoral researcher, Department of Lidar, Institute of Atmospheric Physics, German Aerospace Center (DLR)
- 2010 - 2018: Scientific collaborator, Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens (NOA)

Principal Fields of Research Interest

- **Aerosol and cloud properties and interactions.** Retrieving microphysical and optical properties of aerosols and clouds from active and passive remote sensing methods. Climatic role of aerosols and clouds. Particularly interest in research related to the properties of mineral dust and smoke, its climatic role and its impact on cloud formation.
- **New Lidar and Cloud radar Remote Sensing methods** (*Ground-based and Space-borne*) for atmospheric applications targeting aerosol, cloud and water vapor studies. What can we learn from current satellite observations in preparation of the next-generation satellite missions?
- **Validation of space-borne atmospheric products**, using ground-based lidar and sun-photometric techniques.

Participation in Research Projects

- **D-TECT ERC** project (Does dust Tribo-electrification affect our Climate? ERC Consolidator Grant). WP leader, responsible for the implementation of the large-scale experiments in Antikythera station and Cape Verde (01/02/2020 – Today).
- **EKAD³** project (Creation in NOA a national center for collection, analysis and dissemination of satellite data for monitoring land, air and sea). Responsible for the development of algorithms for retrieving advanced products using the Polly-XT lidar data of NOA (01/2017 – 12/2017).
- **ECARS** EU project (East European Centre for Atmospheric Remote Sensing). Participated in the organization of the 2nd ECARS summer school for “Satellite Cal/Val Activities employing ground - based remote sensors” held at Agios Nikolaos and Finokalia, Crete (Greece) during 3 – 12 of April 2017; Participation in the WPs of the project related to the Satellite dissemination activities to INOE (04/2016 – 01/2017).
- **DEDICATE** ESA project (Development of a dual-channel Depolarization lidar technique for the derivation of CALIPSO/ Aeolus/ EarthCARE-related conversion factors). Responsible for the data processing for the derivation of depolarization spectral dependence using CHARADMexp data, as well as for the consolidation of the depolarization spectral conversion factors to LIVAS database (11/2015 – 04/2016).
- **MarcoPolo** EU FP7 project (Monitoring and Assessment of Regional air quality in China using space Observations, Project Of Long-term sino-european co-Operation). Participates on the development of aerosol 4D climatology over China using CALIPSO and EARLINET data to assess the contribution of pollution from anthropogenic and natural sources (05/2014 – 10/2015).
- **BEYOND** EU FP7 project (Building a Centre of Excellence for Earth Observation based monitoring of Natural Disasters). Responsible for the development of the NOA Polly-XT ground-based lidar and related algorithms (09/2013 – 04/2014).
- **LIVAS** ESA project (Lidar Climatology of Vertical Aerosol Structure for Space-Based Lidar Simulation Studies). Responsible for the development of the atmospheric products and the future optimization of the database (12/2011 – 08/2013).

Participation in Experimental campaigns

EM has participated in more than **6 experimental campaigns** related to aerosol and cloud processes.

In the **CLiMA - EUFAR (2017)**, **INUIT – BACCHUS – ACTRIS - EU (2016)**, **ACTRIS JRA1 - EU (2015 - 2016)** and **CHARADMexp - ESA (2014)**; **EARLINET NRT COVID-19 (2020)** experimental campaigns, she was responsible for the operation and exploitation of the PollyXT lidar measurements.

In the **ACEMED - EUFAR (2011)** experiment she was responsible for the interaction with the EUFAR crew to decide on the mission flight planning for the airborne measurements.

Invited presentation

I gave an invited talk on “Ice nucleating particle concentrations in midlevel clouds - A remote sensing perspective” in the Leipzig University curriculum on 4/3/2020.

Conference Organization

- Member of the organizing committee of the 26th International Laser Radar Conference, Porto Heli, Greece, 25-29 June, 2012.
- Member of the program committee of the 1st European Lidar conference, Thessaloniki, Greece, 3-5 July 2018.
- Member of the program committee of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics, Alexandroupolis, Greece, 15-17 October 2018.

Scholarships and Awards

Two Scholarships for PhD and PostDoc research (provided below) and four travel grants from the 27th, 28th and 29th ILRC and the 1st ELC international conferences.

- Scholarship for Postdoctoral research, Deutscher Akademischer Austauschdienst (DAAD), Germany (2018 – 2020).
- Educational grant for the PhD Research, A. G. Leventis Foundation, Greece (2016 – 2017).

Editor and Reviewer in Journals

- Editor of Remote Sensing Journal (MDPI, Impact Factor = 4.5)
- Reviewer in Atmospheric Chemistry and Physics (ACP) journal (Copernicus, European Geophysical Union, Impact Factor = 5.4)
- Reviewer in Atmospheric Measurement and Techniques (AMT) journal (Copernicus, European Geophysical Union, Impact Factor = 3.7)
- Reviewer in Atmospheric Research journal (Elsevier, Impact Factor = 4.7)
- Reviewer in Journal of Atmospheric and Solar-Terrestrial Physics (JASTP) (Elsevier, Impact Factor = 1.5)

Participation in Networks and Scientific Groups

- Associate researcher of the “European Aerosol Research Lidar Network” (EARLINET, European Union). Co-Pi of the EARLINET stations at Antikythera, Greece and Finokalia, Greece. (Since 2013)
- Associate researcher of the ACTRIS (Aerosols, Clouds, and Trace gases Research Infrastructure Network) infrastructure network (<http://www.actris.net/>, under EC-FR7). Participates on the efforts taken within ACTRIS in order to validate CALIPSO lidar products using EARLINET collocated measurements as well as measurements from dedicated campaigns. Furthermore, I am responsible for the operation of the NOA Polly-XT lidar system, in close collaboration with TROPOS Institute. (2014 – 2018; 2020 - today)
- Associate researcher of the Polly-NET (POrtable Raman Lidar NETwork) network (<http://polly.tropos.de/>). (Since 2014)
- Member of the Atmospheric Physics and Chemistry Group (APCG, <http://apcg.space.noa.gr>) (2011 – 2018).
- Member of the Aerosols and Clouds DLR research group (2018 –2020).
- Member of the Remote sensing of Aerosols, Clouds and Trace gases group (ReACT, <http://apcg.space.noa.gr>) (2020 - today).

Supervising and mentoring activities

- 01/05/2017 – 15/01/2018: Co-supervision of the M.Sc. thesis of the physics department of University of Athens entitled: «Characterization and standardization of aerosols for use in satellite data calibration studies» of E. Tetoni.
- 01/05/2017 – 15/01/2018: Co-supervision of the M.Sc. thesis of the physics department of University of Athens entitled: «Characterization of the elevated layers detected during the Pre-TECT experimental campaign» of A. Gialitaki.
- 11/03/2020 – today: Co-supervision of the PhD of Anna Gialitaki, Topic: Physical, optical and chemical properties of the aerosols with the use of remote sensing techniques and in-situ measurements in background conditions, Supervisor: Prof. D. Balis, Aristotle University of Thessaloniki

- 11/03/2020 – today: Co-supervision of the PhD of Maria Tsihla, Topic: Characterization of marine particles in the Eastern Mediterranean, Supervisor: Nikos Michalopoulos, University of Crete
- 11/03/2020 – today: Co-supervision of the PhD of Ioanna Tsikoudi, Topic: Aerosol characterization with the use of active remote sensing methods in combination with Eastern Mediterranean meteorology, Supervisor: Associate Professor Flocas Helena, Kapodistrian University of Athens.

Participation in International Conferences – Symposiums

Participated in 9 international conferences related to aerosol and cloud science and atmospheric remote sensing (8 talks).

1. 6th International Workshop on Sand/Duststorms and associated dustfall, Athens, Greece, 7-9 September, 2011.
2. 11th international Conference on Meteorology, Climatology and Atmospheric Physics, Athens, Greece, 29 May – 1 June 2012.
3. 26th International Laser Radar Conference, Porto Heli, Greece, 25-29 June 2012.
4. 11th EARLINET General Assembly, Cork, Ireland, 5-7 May 2014.
5. 27th International Laser Radar Conference, New York, USA, 5-10 July 2015.
6. 13th International Conference on Meteorology, Thessaloniki, 19-21 September 2016.
7. 28th International Laser Radar Conference, Bucharest, Rumania, 25-30 June 2017.
8. 1st European Lidar Conference, Thessaloniki, Greece, 3-5 July 2018.
9. 29th International Laser Radar Conference, Hefei, China, 24-28 June 2019.

Participation in Workshops

Participated in 17 workshops related to aerosol & cloud science and atmospheric remote sensing.

1. 3rd Joint ACTRIS WP2/WP20 Workshop, Limassol, Cyprus, 26-29 November 2013.
2. 2nd ACTRIS Winter School, Hyytiälä Forest Field station, Finland, 10-21 March 2014.
3. 4th Joint ACTRIS WP2/WP20 Workshop, Lille, France, 27-31 October 2014.
4. ACTRIS-2 WP2 Workshop, Leipzig, Germany, 23-25 November 2015.
5. 1st Polly Workshop, Leipzig, Germany, 18-20 November 2015.
6. 1st ECARS Summer School, Bucharest, Rumania, 23-28 May 2016.
7. Atmospheric Processes in the Mediterranean: A joint ACTRIS - BACCHUS – ChArMEx International workshop, Larnaca, Cyprus, 17-21 October 2016.
8. ACTRIS-2 Second WP2 Workshop "Profiling of Aerosols and Clouds", Barcelona, Spain, 7-11 November 2016.
9. 1st Cloudnet Training School, Limassol, Cyprus, 27 – 31 March 2017.
10. 2nd ECARS summer school for “Satellite Cal/Val Activities employing ground - based remote sensors”, Crete, Greece, 3 – 12 of April 2017.
11. 3rd ACTRIS-2 WP2 Workshop, Delft, The Netherlands, 13-17 November 2017.
12. NAWDEX Workshop 2018, LMU Munich, Germany, 28 February - 2 March 2018.
13. Seventh International EarthCARE Science Workshop in conjunction with the First ESA EarthCARE Validation Workshop, Bonn, Germany, 11 – 15 June 2018.
14. 2nd Cloudnet Training School, LMU, Munich, Germany, 11– 15 March 2019.
15. NAWDEX Workshop 2019, Météo-France, Toulouse, France, 26 - 28 March 2019.
16. 8th International EarthCARE Science Workshop, 25 – 27 November 2019, Fukuoka, Japan.
17. Aerosol Remote Sensing (ARS-ARES) workshop, 6 – 8 July 2020, Online workshop.

Soft Skills

- Languages: Greek (native), English (fluent – Certificate of Proficiency C1, IELTS)
- Computer Skills: Programming languages: Python, IDL, Matlab, LabVIEW
- Supercomputing facilities: ICARE/AERIS

- Fluent in several mathematical, statistical and data analysis software
- Operation of ground-based combined Raman/backscatter lidar
- Development of algorithms for space-borne and ground-based lidars
- Sun-photometric techniques
- Thorough experience on processing satellite atmospheric data

Publications

EM has contributed to 35 publications in peer-reviewed scientific journals (2 as a first author), 18 book chapters (3 as a first author), 93 conference proceedings with reviewers (10 first authors; 8 talks in international conferences) and 1 university publication (monograph). These have resulted in an **h-index of 14 and 738 citations** (according to the Web of Science / Researcher ID K-5793-2013).

A) In peer-reviewed scientific journals

First author:

- A1. 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., 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. (cited 8 times)
- A2. Marinou, E., Amiridis, V., Biniotoglou, I., Tsikerdekis, A., Solomos, S., Proestakis, E., Konsta, D., Papagiannopoulos, N., Tsekeri, A., Vlastou, G., Zanis, P., Balis, D., Wandinger, U., and Ansmann, A.: **Three-dimensional evolution of Saharan dust transport towards Europe based on a 9-year EARLINET-optimized CALIPSO dataset**, *Atmos. Chem. Phys.*, 17, 5893-5919, doi:10.5194/acp-17-5893-2017, 2017. (cited 52 times)

As a co-author:

- A3. Amiridis, V., Zerefos, C., Kazadzis, S., Gerasopoulos, E., Eleftheratos, K., Vrekoussis, M., Stohl, A., Mamouri, R.E., Kokkalis, P., Papayannis, A., Eleftheriadis, K., Diapouli, E., Keramitsoglou, I., Kontoes, C., Kotroni, V., Lagouvardos, K., Marinou, E., Giannakaki, E., Kostopoulou, E., Giannakopoulos, C., Richter, A., Burrows J.P., and Mihalopoulos, N.: **Impact of the 2009 Attica wild fires on the air quality in urban Athens**, *Atmospheric Environment*, 46, 536-544, doi:10.1016/j.atmosenv.2011.07.056, 2012.
- A4. Amiridis, V., Wandinger, U., Marinou, E., Giannakaki, E., Tsekeri, A., Basart, S., Kazadzis, S., Gkikas, A., Taylor, M., Baldasano, J., and Ansmann, A.: **Optimizing CALIPSO Saharan dust retrievals**, *Atmos. Chem. Phys.*, 13, 12089-12106, doi:10.5194/acp-13-12089-2013, 2013.
- A5. Marengo, F., Amiridis, V., Marinou, E., Tsekeri, A., and Pelon, J.: **Airborne verification of CALIPSO products over the Amazon: a case study of daytime observations in a complex atmospheric scene**, *Atmos. Chem. Phys.*, 14, 11871-11881, doi:10.5194/acp-14-11871-2014, 2014.
- A6. Amiridis, V., Marinou, E., Tsekeri, A., Wandinger, U., Schwarz, A., Giannakaki, E., Mamouri, R., Kokkalis, P., Biniotoglou, I., Solomos, S., Herekakis, T., Kazadzis, S., Gerasopoulos, E., Proestakis, E., Kottas, M., Balis, D., Papayannis, A., Kontoes, C., Kourtidis, K., Papagiannopoulos, N., Mona, L., Pappalardo, G., Le Rille, O., and Ansmann, A.: **LIVAS: a 3-D multi-wavelength aerosol/cloud database based on CALIPSO and EARLINET**, *Atmos. Chem. Phys.*, 15, 7127-7153, doi:10.5194/acp-15-7127-2015, 2015.
- A7. Baars, H., Kanitz, T., Engelmann, R., Althausen, D., Heese, B., Komppula, M., Preißler, J., Tesche, M., Ansmann, A., Wandinger, U., Lim, J.-H., Ahn, J. Y., Stachlewska, I. S., Amiridis, V., Marinou, E., Seifert, P., Hofer, J., Skupin, A., Schneider, F., Bohlmann, S., Foth, A., Bley, S., Pfüller, A., Giannakaki, E., Lihavainen, H., Viisanen, Y., Hooda, R. K., Pereira, S. N., Bortoli, D., Wagner, F., Mattis, I., Janicka, L., Markowicz, K. M., Achtert, P., Artaxo, P., Pauliquevis, T., Souza, R. A. F., Sharma, V. P., van Zyl, P. G., Beukes, J. P., Sun, J., Rohwer, E. G., Deng, R., Mamouri, R.-E., and Zamorano, F.: **An overview of the first decade of PollyNET: an emerging network of automated Raman-polarization lidars for continuous aerosol profiling**, *Atmos. Chem. Phys.*, 16, 5111-5137, doi:10.5194/acp-16-5111-2016, 2016.
- A8. Engelmann, R., Kanitz, T., Baars, H., Heese, B., Althausen, D., Skupin, A., Wandinger, U., Komppula, M., Stachlewska, I. S., Amiridis, V., Marinou, E., Mattis, I., Linné, H., and Ansmann, A.: **The automated multiwavelength Raman polarization and water-vapor lidar PollyXT: the neXT generation**, *Atmos. Meas. Tech.*, 9, 1767-1784, doi:10.5194/amt-9-1767-2016, 2016.
- A9. Gkikas, A., Basart, S., Hatzianastassiou, N., Marinou, E., Amiridis, V., Kazadzis, S., Pey, J., Querol, X., Jorba, O., Gassó, S., and Baldasano, J. M.: **Mediterranean intense desert dust outbreaks and their**

- vertical structure based on remote sensing data**, *Atmos. Chem. Phys.*, 16, 8609-8642, doi:10.5194/acp-16-8609-2016, 2016.
- A10. Georgoulas, A. K., Alexandri, G., Kourtidis, K. A., Lelieveld, J., Zanis, P., Pöschl, U., Levy, R., Amiridis, V., Marinou, E., and Tsikerdekis, A.: **Spatiotemporal variability and contribution of different aerosol types to the aerosol optical depth over the Eastern Mediterranean**, *Atmos. Chem. Phys.*, 16, 13853-13884, doi:10.5194/acp-16-13853-2016, 2016.
- A11. Proestakis, E., Kazadzis, S., Lagouvardos, K., Kotroni, V., Amiridis, V., Marinou, E., Price, C., and Kazantzidis, A.: **Aerosols and lightning activity: The effect of vertical profile and aerosol type**, *Atmospheric Research*, 182, 243-255, doi: <http://dx.doi.org/10.1016/j.atmosres.2016.07.031>, 2016.
- A12. Kokkalis, P., Amiridis, V., Allan, J.D., Papayannis, A., Solomos, S., Biniatoglou, I., Bougiatioti, A., Tsekeri, A., Nenes, A., Rosenberg, P.D., Marenco, F., Marinou, E., Vasilescu, J., Nicolae, D., Coe, H., Bacak, A., Chaikovskiy, A.: **Validation of LIRIC aerosol concentration retrievals using airborne measurements during a biomass burning episode over Athens**, *Atmospheric Research*, 183, 255-267, doi: <http://dx.doi.org/10.1016/j.atmosres.2016.09.007>, 2017.
- A13. Tsekeri, A., Amiridis, V., Marenco, F., Nenes, A., Marinou, E., Solomos, S., Rosenberg, P., Trembath, J., Nott, G. J., Allan, J., Le Breton, M., Bacak, A., Coe, H., Percival, C., and Mihalopoulos, N.: **Profiling aerosol optical, microphysical and hygroscopic properties in ambient conditions by combining in situ and remote sensing**, *Atmos. Meas. Tech.*, 10, 83-107, doi:10.5194/amt-10-83-2017, 2017.
- A14. Tsikerdekis, A., Zanis, P., Steiner, A. L., Solmon, F., Amiridis, V., Marinou, E., Katragkou, E., Karacostas, T., and Foret, G.: **Impact of dust size parameterizations on aerosol burden and radiative forcing in RegCM4**, *Atmos. Chem. Phys.*, 17, 769-791, doi:10.5194/acp-17-769-2017, 2017.
- A15. Chimot, J., Veeffkind, J. P., Vlemmix, T., de Haan, J., Amiridis, V., Proestakis, E., Marinou, E., and Levelt, P. F.: **An exploratory study on the aerosol height retrieval from OMI measurements of the 477 nm O₂ – O₂ spectral band using a neural network approach**, *Atmos. Meas. Tech.*, 10, 783-809, doi:10.5194/amt-10-783-2017, 2017.
- A16. Solomos, S., Ansmann, A., Mamouri, R.-E., Biniatoglou, I., Patlakas, P., Marinou, E., and Amiridis, V.: **Remote sensing and modelling analysis of the extreme dust storm hitting the Middle East and eastern Mediterranean in September 2015**, *Atmos. Chem. Phys.*, 17, 4063-4079, doi:10.5194/acp-17-4063-2017, 2017.
- A17. Schrod, J., Weber, D., Drücke, J., Keleshis, C., Pikridas, M., Ebert, M., Cvetković, B., Nickovic, S., Marinou, E., Baars, H., Ansmann, A., Vrekoussis, M., Mihalopoulos, N., Sciare, J., Curtius, J., and Bingemer, H. G.: **Ice nucleating particles over the Eastern Mediterranean measured by unmanned aircraft systems**, *Atmos. Chem. Phys.*, 17, 4817-4835, doi:10.5194/acp-17-4817-2017, 2017.
- A18. Kosmopoulos, P. G., Kazadzis, S., Taylor, M., Athanasopoulou, E., Speyer, O., Raptis, P. I., Marinou, E., Proestakis, E., Solomos, S., Gerasopoulos, E., Amiridis, V., Bais, A., and Kontoes, C.: **Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements**, *Atmos. Meas. Tech.*, 10, 2435-2453, <https://doi.org/10.5194/amt-10-2435-2017>, 2017.
- A19. Haarig, M., Ansmann, A., Althausen, D., Klepel, A., Groß, S., Freudenthaler, V., Toledano, C., Mamouri, R.E., Farrell, D.A., Prescod, D.A., Marinou, E., Burton, S. P., Gasteiger, J., Engelmann, R., and Baars, H.: **Triple-wavelength depolarization-ratio profiling of Saharan dust over Barbados during SALTRACE in 2013 and 2014**, *Atmos. Chem. Phys.*, 17, 10767-10794, <https://doi.org/10.5194/acp-17-10767-2017>, 2017.
- A20. Tsekeri, A., Lopatin, A., Amiridis, V., Marinou, E., Igloffstein, J., Siomos, N., Solomos, S., Kokkalis, P., Engelmann, R., Baars, H., Gratsea, M., Raptis, P. I., Biniatoglou, I., Mihalopoulos, N., Kalivitis, N., Kouvarakis, G., Bartsotas, N., Kallos, G., Basart, S., Schuettmeyer, D., Wandinger, U., Ansmann, A., Chaikovskiy, A. P., and Dubovik, O.: **GARRLIC and LIRIC: strengths and limitations for the characterization of dust and marine particles along with their mixtures**, *Atmos. Meas. Tech.*, 10, 4995-5016, <https://doi.org/10.5194/amt-10-4995-2017>, 2017.
- A21. Proestakis, E., Amiridis, V., Marinou, E., Georgoulas, A. K., Solomos, S., Kazadzis, S., Chimot, J., Che, H., Alexandri, G., Biniatoglou, I., Daskalopoulou, V., Kourtidis, K. A., de Leeuw, G., and van der A, R. J.: **Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP**, *Atmos. Chem. Phys.*, 18, 1337-1362, <https://doi.org/10.5194/acp-18-1337-2018>, 2018.
- A22. de Leeuw, G., Sogacheva, L., Rodriguez, E., Kourtidis, K., Georgoulas, A. K., Alexandri, G., Amiridis, V., Proestakis, E., Marinou, E., Xue, Y., and van der A, R.: **Two decades of satellite observations of AOD**

- over mainland China using ATSR-2, AATSR and MODIS/Terra: data set evaluation and large-scale patterns, *Atmos. Chem. Phys.*, 18, 1573-1592, <https://doi.org/10.5194/acp-18-1573-2018>, 2018.
- A23. Li, W., El-Askary, H., Qurban, M. A., Proestakis E., Garay M. J., Kalashnikova, O. V., Amiridis, V., Gkikas, A., Marinou, E., Piechota, T. and ManiKandan, K. P.: **An Assessment of Atmospheric and Meteorological Factors Regulating Red Sea Phytoplankton Growth**, *Remote Sens.*, 10(5), 673; doi:10.3390/rs10050673, 2018.
- A24. Mamali, D., Marinou, E., Sciare, J., Pikridas, M., Kokkalis, P., Kottas, M., Biniotoglou, I., Tsekeri, A., Keleshis, C., Engelmann, R., Baars, H., Ansmann, A., Amiridis, V., Russchenberg, H., and Biskos, G.: **Vertical profiles of aerosol mass concentration derived by unmanned airborne in situ and remote sensing instruments during dust events**, *Atmos. Meas. Tech.*, 11, 2897-2910, <https://doi.org/10.5194/amt-11-2897-2018>, 2018.
- A25. Georgoulias, A. K., Tsikerdekis, A., Amiridis, V., Marinou, E., Benedetti, A., Zanis, P., Alexandri, G., Mona, L., Kourtidis, K. A., and Lelieveld, J.: **A 3-D evaluation of the MACC reanalysis dust product over Europe, northern Africa and Middle East using CALIOP/CALIPSO dust satellite observations**, *Atmos. Chem. Phys.*, 18, 8601-8620, <https://doi.org/10.5194/acp-18-8601-2018>, 2018.
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