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PERSONAL INFORMATION

Adrian Bogdan Antonescu



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Date of birth 17 July 1980 | Nationality Romanian

WORK EXPERIENCE

Jun 2026 – present

Director

Centre of Excellence for Climate and Societal Changes, University of Bucharest

Feb 2025 – present

Assciate Professor, PhD supervisor

Faculty of Physics, University of Bucharest

Courses taught: “Atmospheric Physics” and “Meteorology”.

May 2023 – present

Senior Researcher

National Institute for Earth Physics

Nov 2022 – present

Consultant/Researcher ClimExRo project

Future Climate Research SRL
str. Blăjel 13, Bucureşti, România

Lead the project “Extreme Weather Events in the Future Climate of Romania” (ClimExRo, climex.ro), funded by the European Climate Foundation.

Oct 2023 – Jan 2025

Lecturer, PhD supervisor

Faculty of Physics, University of Bucharest

Oct 2018 – Aug 2023

Associate Lecturer

Faculty of Physics, University of Bucharest

Mar 2018 – Nov 2022

Senior Researcher

National Institute of Research and Development for Optoelectronics INOE2000
str. Atomiştilor 409, Măgurele, România

Specialized in the remote sensing of clouds and precipitation.

Led the project “Understanding Convective Storms and Their Perls in the Current and Future Climate”.

Jun 2016 – Dec 2017

Postdoctoral Researcher

Centre for Atmospheric Science, The University of Manchester
Simon Building, Oxford Road, Manchester, United Kingdom

Member of the project team of the “What’s the Worst That Can Happen? Re-examining the Most Destructive Convective Storms over Europe” project led by Prof. David M. Schultz and financed by the Risk Prediction Initiative of the Bermuda Institute of Ocean Sciences.

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Jan 2014 – May 2016

Postdoctoral Researcher

Centre for Atmospheric Science, The University of Manchester
Simon Building, Oxford Road, Manchester, United Kingdom

Lead the project “Assessing the Threat of Severe Convective Storms over Europe” funded by the AXA Research Fund.

Dec 2010 – Dec 2013

Postdoctoral Researcher

Centre for Atmospheric Science, The University of Manchester
Simon Building, Oxford Road, Manchester, United Kingdom

Team member of the TROSIAD project (“Tropopause Folding, Stratospheric Intrusions and Deep Convection”), led by Prof. Geraint Vaughan and Prof. David M. Schultz

Jan 2006 – Dec 2010

Research Meteorologist

Romanian National Meteorological Administration
şo. Bucureşti–Ploieşti 97, Bucureşti, România

Part of a team that developed and implemented short-range weather forecasting techniques. Managed the Romanian National Lightning Detection Network.

Apr 2004 – Dec 2005

Short-range weather forecaster

Romanian National Meteorological Administration
şo. Bucureşti–Ploieşti 97, Bucureşti, România

Short-range weather forecaster.

EDUCATION

2022

Habilitation - Thesis: “Tornadoes in Europe”

Faculty of Physics, University of Bucharest, Bucureşti, România

2007 – 2010

PhD - Thesis: “Cloud-to-ground lightning activity of convective storms in Romania” supervisor Prof. Sabina Ştefan

Faculty of Physics, University of Bucharest, Bucureşti, România

2003 – 2005

Master - Thesis: “Use of cloud-to-ground lightning data in severe convective storms forecasting” supervisor Prof. Sabina Ştefan

Faculty of Physics, University of Bucharest, Bucureşti, România

1999 – 2003

Bachelor in Physics

Faculty of Physics, University of Bucharest, Bucureşti, România

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PERSONAL SKILLS

Organisational/managerial skills

- Deputy Director of the European Severe Storms Laboratory (ESSL) (2016 – present)
- Deputy Director of the Romanian Association of Meteorology and Education (ARMAE) (2021 –2024)
- member of the American Meteorological Society (2015 – present)
- member of the Royal Meteorological Society (2017 – present)
- member of the International Commission on History of Meteorology (2009 – present)
- Committee Member:
  - 2023 Member of the Organizing Committee for the 11th European Conference on Severe Storms, 9–12 May, Bucharest, Romania.
  - 2022 Co-organizer of the mini-European Conference on Severe Storms, 27–28 Sep, online event.
  - 2019 Member of the Scientific Program Committee for the 10th European Conference on Severe Storms, 4–8 Nov, Kraków, Poland.
  - 2017 Chair of the Scientific Program Committee for the 9th European Conference on Severe Storms, 18–22 Sep, Pula, Croatia.
  - 2017 Co-organizer of the European Severe Storms Laboratory Summer School on Severe Convection, 28 Aug–1 Sep, Wiener Neustadt, Austria.
  - 2015 Member of the Scientific Program Committee for the 8th European Conference on Severe Storms, 18–22 Sep, Wiener Neustadt, Austria.
  - 2015 Chair of the session “Storms, Supercells, and Tornadoes”, 8th European Conference on Severe Storms, 18–22 Sep, Wiener Neustadt, Austria.
  - 2013 Chair of the session “Forecasting”, 7th European Conference on Severe Storms, 3–7 Jun, Helsinki, Finland.
  - 2013 Member of the Organizing Committee of the Workshop on “Understanding and Representing Atmospheric Convection Across Scales”, 28–30 Jan, Devon, United Kingdom
  - 2010 Chair of the Local Organizing Committee of the 6th European Conference on Radar in Meteorology and Hydrology, 6–10 Sep, Sibiu, România

Communication skills

- Interviews:
  - Radio (selected): Featured on BBC Paul Hudson’s Weather Show, BBC Johnny l’Anson show, various BBC local stations, Radio România Cultural, Radio Europa FM, Radio Romania Actualități, Green Report (podcast).
  - Television (selected): Appeared on BBC Northwest, That’s Manchester, Digi24, Antena 1, Antena 3, TVR2, TVR Info, ProTV, EuroNews România, Prima TV, B1 TV.
  - Online Publications (selected): Interviewed by International Business Times, The Conversation, Press One, Diaspora News, Vice, HotNews.
- Expert contribution: Invited expert on “Planeta ești tu!” – a Digi24 TV show dedicated to climate change (2020–present).
- Publications: Written articles on my research and other topics for The Irish Times, The Guardian, Geographical Magazine, Sciences et Avenir, The Conversation, and InfoClima.
- Public Talks: Presentations for the general public at:Science Uncovered, Manchester Museum, UK; Pint of Science Festival, Manchester, UK; Manchester Science Festival, Manchester, UK; Kirkby SciBar, Kirkby, UK; Măgurele Science and Technology Summer School, Măgurele, Romania; Romanian Association for Applied Meteorology and Education, Bucharest, Romania; American Meteorological Society (online), Bucharest Science Festival, Bucharest, Romania.

Reviewer/Member in Editorial Boards

- Reviewer: I reviewed manuscripts for (selection) *Monthly Weather Review*, *Atmospheric Research*, *International Journal of Climatology*, *Journal of Geophysical Research*, *Earth Interactions*, *Journal of Applied Meteorology and Climatology*, *Meteorologische Zeitschrift*, *Remote Sensing of Environment*, *Meteorology, and Atmospheric Physics*, *Global and Planetary Change*, *Theoretical and Applied Climatology*, *Meteorological Applications*, *Current Climate Change Reports*, *Natural Hazards*, *Bulletin of the American Meteorological Society*, *Atmosphere, Weather and Forecasting*, *Advances in Science and Research*, *Journal of Climate*, *Natural Hazards and Earth System Sciences*, *Remote Sensing*.
- Associate Editor (2019–present) for *Weather, Climate, and Society*.
- Associate Editor (2015–2022) for *Monthly Weather Review*.

Teaching

- I am currently teach the courses on "Atmospheric Physics" and "Meteorology" for the Master programme at the Faculty of Physics, University of Bucharest, Romania (2023–present).
- Instructor the "Atmospheric Dynamics" course at the “Henri Coandă” Airforce Academy, Brașov, Romania (2019–2022).
- Lead a workshop on poster presentations for second-year PhD students at the Leeds York NERC Doctoral Training Partnership, Leeds, United Kingdom (2017).
- From 18–29 August 2016, I conducted introductory lectures (totalling 42 hours) on mesoscale meteorology at Nanjing University of Information Science and Technology (NUIST, China). This was part of a collaboration between NUIST and the University of Manchester (2016).
- I contributed video interviews on conference and poster presentations to the“Creating Effective Conference Presentations Workshop”, a segment of the Graduate and Researcher Programme at the University of Manchester, United Kingdom (2015).
- I was an invited speaker for Cyclone Week, an online training event for forecasters sponsored by EUMetTrain, under the auspices of EUMETSAT, in June 2012.
- Between June and August 2012, I took part in the “Teaching for Researchers” course at the University of Manchester, UK. This course targeted research staff aspiring to roles in higher education teaching.
- During my doctoral studies, I taught introductory sessions on severe convection, thermodynamics, atmospheric electricity, and weather forecasting for junior meteorologists at the Romanian National School of Meteorology, Bucharest, Romania (2007–2010).

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	C1	B1	B1	B1

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

Computer skills

- R, LaTeX, Adobe Illustrator proficient user

RESEARCH PROJECTS

Project Leader

- *Centre of Excellence of Climate and Societal Changes* (16.800.000 euro) (PN-IV-P6-6.1-CoEx-2024-0042) (2026–present)
- *Understanding convective storms and their perils in the current and future climate* (euro 90,000) founded through Proiectul Nucleu III–Tinere Echipe 2019, Romania (2019–2022).
- *Assessing the Threat of Severe Convective Storms over Europe* (euro 120,000) founded by AXA Research Fund, The University of Manchester, United Kingdom (2014–2015)
- *Extreme Weather Events in Future Climate of Romania* (euro 150,000) founded by European Climate Foundation (2022–2025)

CONFERENCES AND SEMINARIES

Invited talks (Selected)

- **B. Antonescu**, 2020: Tornadoes in Europe: What is the worst that could happen? Workshop: Convective Storm Risk, European Severe Storms Laboratory, 24–26 Nov 2020, online.
- **B. Antonescu**, 2020: Climatology of observed severe convective storms and their impacts. Workshop: Convective Storm Risk, European Severe Storms Laboratory, 24–26 November 2020, online.
- **B. Antonescu**, P. Groenemeijer, T. Kühne, D. M. Schultz, T. Púčik, and A. Holzer, 2020: Tornadoes in Europe: What we have learned so far. 54th Congress of the Canadian Meteorological and Oceanographical Society, 25 May–15 Jun, Ottawa, Canada.

PUBLICATIONS

[1] L. Mărmureanu, **B. Antonescu**, D. Ene, S. Andrei, and R. Turcu. "Changes in the thermal stress across Europe between 1940–2023". In: *International Journal of Biometeorologi* (2025).

[2] J. Fischer, P. Groenemeijer, A. Holzer, M. Feldmann, K. Schröer, F. Battaglioli, L. Schielicke, T. Púčik, **B. Antonescu**, C. Gatzen, and TIM Partners. "Invited perspectives: Thunderstorm intensification from mountains to plains". In: *Natural Hazards and Earth System Sciences* 25 (2025), pp. 2629–2656. URL: https://doi.org/10.5194/nhess-25-2629-2025.

[3] M. Ioniță, **B. Antonescu**, C. Roibu, and V. Nagavciuc. "Drought's Grip on Romania: A Tale of Two Indices". In: *International Journal of Climatology* 45 (2025), e8876. URL: https://doi.org/10.1002/joc.8876.

[4] T. Kühne, **B. Antonescu**, P. Groenemeijer, and T. Púčik. "Lightning Fatalities in Europe (2001–20)". In: *Weather, Climate, and Society* 17 (2025), pp. 205–215. URL: https://doi.org/10.1175/WCAS-D-24-0038.1.

[5] M. Ioniță, P. Vaideanu, **B. Antonescu**, C. Roibu, Q. Ma, and V. Nagavciuc. "Examining the Eastern European extreme summer temperatures of 2023 from a long-term perspective: the role of natural variability vs. anthropogenic factors". In: *Natural Hazards and Earth System Sciences* 24 (2024), pp. 4683–4706. URL: https://doi.org/10.5194/nhess-24-4683-2024.

[6] L. Mărmureanu et al. "Evaluation of aerosol chemical speciation monitor response to different mixtures of organic and inorganic aerosols". In: *Aerosol Science and Technology* 59.1 (2024), pp. 16–33. URL: https://doi.org/10.1080/02786826.2024.2412999.

[7] G.-B. Burghelea, L. Mărmureanu, G. Iorga, and **B. Antonescu**. "Comparison of PM10 Levels in Three of the Most Polluted Cities in Romania over the Periods Related to Lower Traffic—Implications for Human Health". In: *Applied Sciences* 14 (2024), p. 8169. URL: https://doi.org/10.3390/app14188169.

[8] **B. Antonescu**, D. Ene, M. Boldeanu, S. Andrei, L. Mărmureanu, C. Marin, and R. Pîrloagă. "Future changes in heatwaves characteristics in Romania". In: *Theoretical and Applied Climatology* 153 (2023), pp. 525–538. URL: https://doi.org/10.1007/s00704-023-04412-5.

[9] R. Pîrloagă, M. Adam, **B. Antonescu**, S. Andrei, and S. Ștefan. "Ground-Based Measurements of Wind and Turbulence at Bucharest–Măgurele: First Results". In: *Remote Sensing* 15 (2023), p. 1514. URL: https://doi.org/10.3390/rs15061514.

[10] M. Adam, K. Fragkos, S. Solomos, L. Belegante, S. Andrei, C. Talianu, L. Mărmureanu, **B. Antonescu**, D. Ene, V. Nicolae, and V. Amiridis. "Methodology for Lidar Monitoring of Biomass Burning Smoke in Connection with the Land Cover". In: *Remote Sensing* 14 (2022), p. 4734. URL: https://doi.org/10.3390/rs14194734.

[11] R. Pîrloagă, D. Ene, M. Boldeanu, **B. Antonescu**, E. J. O'Connor, and S. Ștefan. "Ground-Based Measurements of Cloud Properties at the Bucharest–Măgurele Cloudnet Station: First Results". In: *Atmosphere* 13 (2022), p. 1445. URL: https://doi.org/10.3390/atmos13091445.

[12] G. L. Săftoiu (Golea), S. Ștefan, **B. Antonescu**, G. Iorga, and L. Belegante. "Characteristics of stratocumulus clouds over Bucharest-Măgurele". In: *Romanian Reports in Physics* 64 (2022), p. 705.

[13] R. Pîrloagă, D. Ene, and **B. Antonescu**. "Population Bias on Tornado Reports in Europe". In: *Applied Sciences* 11 (2021), p. 11485. URL: https://doi.org/10.3390/app112311485.

[14] **B. Antonescu**, L. Mărmureanu, J. Vasilescu, C. A. Marin, S. Andrei, M. Boldeanu, D. Ene, and A. Țilea. "A 41-years bioclimatology of thermal stress in Europe". In: *International Journal of Climatology* 41 (2020), pp. 3934–3952. URL: https://doi.org/10.1002/joc.7051.

[15] D. M. Schultz, H. Volkert, **B. Antonescu**, and H. C. Davies. “Defender and Expositor of the Bergen Methods of Synoptic Analysis: Significance, History, and Translation of Bergeron’s (1928) “Three-Dimensionally Combining Synoptic Analysis””. In: *Bulletin of the American Meteorological Society* 101.12 (2020), E2078–E2094. URL: https://doi.org/10.1175/BAMS-D-20-0021.1.

[16] S. Andrei, M. D. Andrei, M. Huştiu, S. Cheval, and **B. Antonescu**. “Tornadoes in Romania—From forecasting and warning to understanding public’s response and expectations”. In: *Atmosphere* 11 (2020). URL: https://doi.org/10.3390/atmos11090966.

[17] S. Cheval, A. Haliuc, **B. Antonescu**, A. Tișcovschi, M. Dobre, F. Tătui, A. Dumitrescu, A. Manea, G. Tudorache, A. Irimescu, M.-V. Birsan, and C. Mock. “Enriching the historical meteorological information using Romanian language newspaper reports: A database from 1880 to 1900”. In: *International Journal of Climatology* 41 (2020), E548–E562. URL: https://doi.org/10.1002/joc.6709.

[18] A. Chernokulsky, M. V. Kurgansky, I. Mokhov, A. Shikhov, I. Azhigov, E. Selezneva, D. Zakharchenko, **B. Antonescu**, and T. Kühne. “Tornadoes in Northern Eurasia: from the Middle Age to the Information Era”. In: *Monthly Weather Review* 148 (2020), pp. 3081–3110. URL: https://doi.org/10.1175/MWR-D-19-0251.1.

[19] L. Mărmureanu, J. Vasilescu, J. Slowik, A. S. H. Prévôt, C. A. Marin, **B. Antonescu**, A. Vlachou, A. Nemuc, A. Dandocsi, and S. Szidat. “Online Chemical Characterization and Source Identification of Summer and Winter Aerosols in Măgurele, Romania”. In: *Atmosphere* 11 (2020), p. 385. URL: https://doi.org/10.3390/atmos11040385.

[20] **B. Antonescu**, T. Púčik, and D. M. Schultz. “Hindcasting the First Tornado Forecast in Europe: 25 June 1967”. In: *Weather and Forecasting* 35 (2020), pp. 417–436. URL: https://doi.org/10.1175/WAF-D-19-0173.1.

[21] S. Cheval, D. Micu, A. Dumitrescu, A. Irimescu, M. Frighenciu, C. Iojă, N. C. Tudose, S. Davidescu, and **B. Antonescu**. “Meteorological and Ancillary Data Resources for Climate Research in Urban Areas”. In: *Climate* 8 (2020), p. 37. URL: https://doi.org/10.3390/cli8030037.

[22] S. Andrei, **B. Antonescu**, M. Boldeanu, L. Mărmureanu, C. A. Marin, J. Vasilescu, and D. Ene. “An Exceptional Case of Freezing Rain in Bucharest (Romania)”. In: *Atmosphere* 10 (2019), p. 673. URL: https://doi.org/10.3390/atmos10110673.

[23] L. Mărmureanu, C. Marin, S. Andrei, **B. Antonescu**, D. Ene, M. Boldeanu, J. Vasilescu, C. Vitelaru, O. Cadar, and E. Levei. “Orange snow - A Saharan Dust Intrusion over Romania During Winter Conditions”. In: *Remote Sensing* 11 (2019), p. 2466. URL: https://doi.org/10.3390/rs11212466.

[24] T. Púčik, C. Castellano, P. Groenemeijer, T. Kühne, A. Rädler, **B. Antonescu**, and E. Faust. “Large hail incidence and its economical and societal impacts across Europe”. In: *Monthly Weather Review* 147 (2019), pp. 3901–3916. URL: https://doi.org/10.1175/MWR-D-19-0204.1.

[25] **B. Antonescu**, D. M. Schultz, H. M. A. Ricketts, and D. Ene. “Theories on tornado and waterspout formation in ancient Greece and Rome”. In: *Weather, Climate, and Society* 11 (2019), pp. 889–900. URL: https://doi.org/10.1175/WCAS-D-19-0057.1.

[26] M. Brâcuș, D. M. Schultz, **B. Antonescu**, C. Dearden, and S. Ștefan. “Origin of strong winds in an explosive Mediterranean extratropical cyclone”. In: *Monthly Weather Review* 147 (2019), pp. 3649–3671. URL: https://doi.org/10.1175/MWR-D-19-0009.1.

[27] V. Nicolae, C. Talianu, S. Andrei, **B. Antonescu**, D. Ene, D. Nicolae, A. Dandocsi, V.-E. Toader, S. Ștefan, T. Savu, and J. Vasilescu. “Multiyear typology of long-range transported aerosols over Europe”. In: *Atmosphere* 10 (2019), p. 482. URL: https://doi.org/10.3390/atmos10090482.

[28] C. A. Marin, L. Mărmureanu, C. Radu, A. Dandocsi, C. Stan, F. Toanca, L. Preda, and **B. Antonescu**. “Wintertime variations of gaseous atmospheric constituents in Bucharest peri-urban area”. In: *Atmosphere* 10 (2019), p. 478. URL: https://doi.org/10.3390/atmos10080478.

[29] **B. Antonescu**, H. M. A. Ricketts, and D. M. Schultz. “100 Years Later: Reflecting on Alfred Wegener’s Contributions to Tornado Research in Europe”. In: *Bulletin of the American Meteorological Society* 100 (2019), pp. 567–578. URL: https://doi.org/10.1175/BAMS-D-17-0316.1.

[30] K. Fragkos, **B. Antonescu**, D. M. Giles, E. Ene, M. Boldeanu, G. A. Efstathiou, L. Belegante, and D. Nicolae. “Assessment of the total precipitable water from a sunphotometer, microwave radiometer, and radiosondes at a continental site in southeastern Europe”. In: *Atmospheric Measurement Techniques* 12 (2019), pp. 1979–1997. URL: https://doi.org/10.5194/amt-12-1979-2019.

[31] E. Cârstea, K. Fragkos, N. Siomos, **B. Antonescu**, and L. Belegante. “Columnar aerosol measurements in a continental southeastern Europe site: Climatology and trends”. In: *Theoretical and Applied Climatology* 137 (2019), pp. 3149–3159. URL: https://doi.org/10.1007/s00704-019-02805-z.

[32] D. Nicolae, J. Vasilescu, C. Talianu, I. Binietoglou, V. Nicolae, S. Andrei, and **B. Antonescu**. “A neural network aerosol-typing algorithm based on lidar data”. In: *Atmospheric Chemistry and Physics* 18 (2018), pp. 14511–14537. URL: https://doi.org/10.5194/acp-18-14511-2018.

[33] **B. Antonescu**, Jr. Fairman J. G., and D. M. Schultz. “What’s the worst that could happen? Re-examining the 24–25 June 1967 tornado outbreak over Western Europe”. In: *Weather, Climate, and Society* 10 (2017), pp. 323–340. URL: https://doi.org/10.1175/WCAS-D-17-0076.1.

[34] **B. Antonescu** and F. Cărbunaru. “Cloud-to-ground lightning fatalities in Romania”. In: *Weather, Climate, and Society* 10 (2017), pp. 241–252. URL: https://doi.org/10.1175/WCAS-D-17-0091.1.

[35] P. Groenemeijer, T. Púčik, A. M. Holzer, **B. Antonescu**, K. Riemann-Campe, D. M. Schultz, T. Kühne, B. Feuerstein, H. E. Brooks, III Doswell C. A., H.-J. Koppert, and R. Sausen. “Severe convective storms in Europe: Ten years of research at the European Severe Storms Laboratory”. In: *Bulletin of the American Meteorological Society* 98 (2017), pp. 2641–2651. URL: https://doi.org/10.1175/BAMS-D-16-0067.1.

[36] G. Vaughan, **B. Antonescu**, D. M. Schultz, and C. Dearden. “Invigoration and capping of a convective rainband ahead of a potential vorticity anomaly”. In: *Monthly Weather Review* 145 (2017), pp. 2093–2117. URL: https://doi.org/10.1175/MWR-D-16-0397.1.

[37] **B. Antonescu**, D. M. Schultz, A. Holzer, and P. Groenemeijer. “Tornadoes in Europe: An Underestimated Threat”. In: *Bulletin of the American Meteorological Society* 98 (2017), pp. 713–728. URL: https://doi.org/10.1175/BAMS-D-16-0171.1.

[38] **B. Antonescu**, D. M. Schultz, F. Lomas, and T. Kühne. “Tornadoes in Europe: Synthesis of the observational datasets”. In: *Monthly Weather Review* 144 (2016), pp. 2445–2480. URL: https://doi.org/10.1175/MWR-D-15-0298.1.

[39] **B. Antonescu** and A. Bell. “Tornadoes in Romania”. In: *Monthly Weather Review* 143 (2014), pp. 689–701. URL: https://doi.org/10.1175/MWR-D-14-00181.1.

[40] G. Vaughan, **B. Antonescu**, D. M. Schultz, et al. “Cloud banding and winds in intense European cyclones: Results from the DIAMET Project”. In: *Bulletin of the American Meteorological Society* 96 (2014), pp. 249–265. URL: https://doi.org/10.1175/BAMS-D-13-00238.1.

[41] D. M. Schultz, **B. Antonescu**, and A. Chiariello. “Searching for the elusive cold-type occluded front”. In: *Monthly Weather Review* 142 (2014), pp. 2565–2570. URL: https://doi.org/10.1175/MWR-D-14-00003.1.

[42] **B. Antonescu**, G. Vaughan, and D. M. Schultz. “A five-year radar-based climatology of tropopause folds and deep convection over Wales, United Kingdom”. In: *Monthly Weather Review* 141 (2013), pp. 1693–1707. URL: https://doi.org/10.1175/MWR-D-12-00246.1.

[43] **B. Antonescu**, S. Burcea, and A. Tanase. “Forecasting the onset of cloud-to-ground lightning using radar and upper-air data in Romania”. In: *International Journal of Climatology* 33 (2013), pp. 1579–1584. URL: https://doi.org/10.1002/joc.3533.

[44] S. Burcea, S. Cheval, A. Dumitrescu, **B. Antonescu**, A. Bell, and T. Breza. “Comparison between radar estimated rain gauge measured precipitation in the Moldavian Plateau”. In: *Environmental Engineering and Management Journal* 4 (2012), pp. 723–731. URL: https://doi.org/10.30638/eemj.2012.092.

[45] **B. Antonescu** and S. Ştefan. “The urban effect on the cloud-to-ground lightning activity in the Bucharest area”. In: *Romanian Reports in Physics* 63 (2011), pp. 535–542. URL: https://rrp.nipne.ro/2011_63_2/art19Antonescu.pdf.

[46] **B. Antonescu** and S. Burcea. “A cloud-to-ground lightning climatology for Romania”. In: *Monthly Weather Review* 138 (2010), pp. 579–591.

[47] D. Zoccatelli, M. Borga, F. Zanon, **B. Antonescu**, and G. Stăncilă. “Which rainfall spatial information for flash flood response modelling? A numerical investigation based on data from the Carpathian range, Romania”. In: *Journal of Hydrology* 394 (2010), pp. 148–161. URL: https://doi.org/10.1016/j.jhydrol.2010.07.019.

Books – **B. Antonescu**, 2017: Tornadoes in Europe: Depictions from 1555 to 1910. Blurb, 100 pp.

Chapters in books – Brooks, H.E., C.A. Doswell III, X. Zhang, A.M. Chernokulsky, E. Tochimoto, B. Hanstrum, E. de Lima Nascimento, D.M. Sills, **B. Antonescu**, and B. Barrett, 2018: A Century of Progress in Severe Convective Storm Research and Forecasting. Meteorological Monographs, 59, 18.1–18.41.

Citations – 53 peer-review articles between 2010–2026 with 1266 citations since 2010 / h-index 21 according to Web of Science (Web of Science ResearcherID: G-5057-2010) and 2015 citations since 2010 / h-index 25 according to Google Scholar.

November 25, 2026

Bogdan Antonescu