

		
Curriculum vitae Europass		
Personal information		
Name	Istrate Vasilică	
Adress	Strada Republicii, nr. 10. Focșani, România	
Telephone	0721928336	
E-mails	istratavasile87@gmail.com; vasilica.istrate@uaic.ro; istrate.vasilica@legendaryteam.ro	
Naționality	Română	
Birth date	13.06.1987	
Sex	masculin	
Occupational field	Active Atmospheric Interventions Coordinator, Associate Lecturer/Climatology and meteorology, Weather modification, GIS and Remote sensing, land use	
Work experience 14 years		
Period	September 2025 – prezent, Legendary Team Security SRL, Focșani;	
Occupation or position held	Active Atmospheric Interventions Coordinator	
Main activities and responsibilities	Responsabil cercetare și formare personal în domeniul intervențiilor active în atmosferă	
Name and address of employer	Legendary Team Security SRL, Focșani, Str. Fulger, nr 6A, 620063	
Type of business or sector	Adult education and training, Research and experimental development in other natural sciences and engineering, Public order and civil protection activities	
Period	October 2023 - present	
Occupation or position held	Associate lecturer	
Main activities and responsibilities	Didactic activities in the field of Meteorology and Climatology, Climate change, Climate of Romania,	
Name and address of employer	Faculty of Geography and Geology from „Alexandru Ioan Cuza” University from Iasi, Romania, Bd. Carol I nr. 20A, Iași, 700505, România, geoiasi@uaic.ro	
Type of business or sector	Educational, research	
Period	May 2012-August 2025	
Occupation or position held	Active Atmospheric Interventions Coordinator/Program Manager	
Main activities and responsibilities	Weather condition monitoring; Carrying out weather modification activities for hail suppression and rain enhancement; Management of a Hail Suppression Unit.	
Name and address of employer	Intervenții Active în Atmosfera SA, București, Str. Răcari, nr. 5, corp 51B, etaj 2, sector 3, București, https://www.iaa.eu/	

Type of business or sector	Adult education and training, Research and experimental development in other natural sciences and engineering, Public order and civil protection activities
Period	October 2024 -August 2025
Occupation or position held	Associate lecturer
Main activities and responsibilities	Romania Geograpy, Tourism Geography
Name and address of employer	Universitatea de Stiinte Agricole și Medicină Veterinară, București, Facultatea de Management și Dezvoltare Rurală, B-dul Mărăști, Nr. 59, Sector 1, Cod 011464, București, Romania, post@info.usamv.ro
Type of business or sector	Educational
Period	January 2021 – April 2021
Occupation or position held	Adult trainer
Main activities and responsibilities	Teaching theoretical and practical courses in the field of active atmospheric interventions.
Name and address of employer	Fundația Culturală General Conf Grup, București, Str. Răcari, nr. 5, corp 51B, etaj 2, sector 3, București,
Type of business or sector	Educational
Period	03.07.2024 – 31.07.2024
Occupation or position held	Education Counselor
Main activities and responsibilities	Consiliere cadre didactice
Name and address of employer	Asociatia Teach for Romania, București, Str. Gara Herăstrau, nr. 4 D, Bl. Green Court, Sc., Et. 7, Sector 1
Type of business or sector	Educational
Education and training	
Period	October 2014 – September 2021
Title of qualification awarded	Docotral degre in Geography
Principal subjects/occupational skills covere	Research activities
Name and type of organisation providing education and training	Faculty of Geography and Geology from „Alexandru Ioan Cuza” University from Iasi, Romania
Period	2018
Title of qualification awarded	Adult trainer
Principal subjects/occupational skills covere	essential pedagogical skills for teaching adults
Name and type of organisation providing education and training	Casa corpului Didactic “Simion Mehedinți”, Focsani, str. Eroilor nr 2
Period	2017
Title of qualification awarded	Surface works firefighter
Principal subjects/occupational skills covere	Handling of Explosives
Name and type of organisation providing education and training	National Institute for Research and development in mine safety and protection to explosion – Insemex Petrosani, Romania

Period	2013				
Title of qualification awarded	Pyrotechnician				
Principal subjects/occupational skills covered	Construction of electrical initiation circuits for various categories of pyrotechnic articles.				
Name and type of organisation providing education and training	Military Technical Academy „Ferdinand I”, Bulevardul George Coșbuc nr. 39-49, Sector 5, Bucharest, Romania				
Period	October 2009-July 2011				
Title of qualification awarded	Master degree				
Principal subjects/occupational skills covered	Natural hazards and spatial planning				
Name and type of organisation providing education and training	Universitatea Alexandru Ioan Cuza, din Iași, Facultatea de Geografie și Geologie, Departamentul de Geografie				
Period	October 2006-July 2009				
Title of qualification awarded	Bachelor degree				
Principal subjects/occupational skills covered	Geography				
Name and type of organisation providing education and training	Universitatea Alexandru Ioan Cuza, din Iași, Facultatea de Geografie și Geologie, Departamentul de Geografie				
Personal skills and competences					
Mother tongue	Româna				
Other language					
Self-assessment <i>Nivel european (*)</i>	UNDERSTANDING		SPEAKING		WRITING
	Listening		Reading		
	B1		B2		
	A1		A1		
English	B1		B2		
French	A1		A1		
Areas of competence	Meteorology, Climatology, Geographic Information Systems, Assessment of weather and climate risks, Land use				
Competențe și abilități sociale	Team spirit, high adaptability, excellent communication skills, ability to work independently, capacity for synthesis, professionalism.				
Membership in scientific societies	member of the Romanian Geographical Society, Vrancea Branch, since 2022 Founding member of the NGO "EnviroGIS" since 2016				
Published scientific works (Annex 1)	1. Books and chapters: 3 2. Scientific articles: 24 (14 as first author), of which 15 are included in the ISI category.				
Papers presented at scientific events (Annex 2):	22 scientific papers presented, 8 of which were abroad (Germany, Bulgaria, the United States of America, the United Arab Emirates, the Republic of Moldova).				

Citations in the specialized literature	Over 120 citations of own contributions in specialized books or scientific publications, including over 60 ISI citations https://scholar.google.ro/citations?user=BVrhOjwAAAAJ&hl=ro https://www.webofscience.com/wos/author/record/P-3846-2015	
Scientific research or operational projects (Annex 3)	Member of 6 experimental projects on precipitation enhancement using cloud seeding technologies and member of two research projects.	
Teaching activity	Courses/Practical Work/Seminars Subject Meteorology and Climatology Global Climate Change Urban Climatology Supervision of Bachelor's Theses Student Fieldwork/Practical Activities	Specialization/Year Spatial Planning, 1st Year Spatial Planning, 3rd Year Spatial Planning, 3rd Year Supervision of 2 bachelor's theses starting in 2025 2 specialized internships supervised between 2015 and 2025
Additional Information	MEMBER OF ORGANIZING COMMITTEES for national and international seminars, conferences, and symposia - Member of the organizing committee for the 11th edition of the International Symposium "Present Environment and Sustainable Development," held June 3–5, 2016, in Iași, Romania - Member of the organizing committee for the 23rd edition of the "International Symposium on Geographic Information Systems and Remote Sensing," held October 2–4, 2015, in Iași, Romania REVIEWER FOR SPECIALIZED JOURNALS Reviewer for ISI-indexed journals: *Present Environment and Sustainable Development* (since 2019), *Atmosphere* (since 2020), *Science of the Total Environment* (since 2020), *Land* (since 2023), *Natural Hazards*, *Remote Sensing*, *Theoretical and Applied Climatology*, *Forests* (since 2025), and *Water* (since 2026)	
Annexes	Appendix 1 List of published scientific works Appendix 2 List of papers presented at scientific events Appendix 3 List of scientific research or operational projects	

Appendix 1 List of published scientific works

A. Books and books chapters:

1. Sîrbu E., Popescu D.D., Podiuc D., Serghei E., Lazăr I.L., Hortolomei A. M., Ioan L.V., Răţoi C., **Istrate V.**, Dumitrache C.I., Țigănuș T., Suport de curs "Coordonator intervenții active în atmosferă" din cadrul unităților de combatere a căderilor de grindină ale Autorității pentru Administrarea Sistemului Național Antigrindină și de Creștere a Precipitațiilor: nivel de calificare 3, Editura Darclee, ISBN 978-606-9010-21-1551.58, București, 2021.
2. Sîrbu E., Popescu D.D., Podiuc D., Serghei E., Lazăr I.L., Hortolomei A. M., Ioan L.V., Răţoi C., **Istrate V.**, Dumitrache C.I., Țigănuș T., Suport de curs "Coordonator intervenții active în atmosferă" din cadrul unităților de combatere a căderilor de grindină ale Autorității pentru Administrarea Sistemului Național Antigrindină și de Creștere a Precipitațiilor : nivel de calificare 2, Editura Darclee, ISBN 978-606-9010-38-9551.58, București, 2021.
3. Sîrbu E., Popescu D.D., Podiuc D., Serghei E., Lazăr I.L., Hortolomei A. M., Ioan L.V., Răţoi C., **Istrate V.**, Dumitrache C.I., Țigănuș T., Suport de curs "Coordonator intervenții active în atmosferă" din cadrul unităților de combatere a căderilor de grindină ale Autorității pentru Administrarea Sistemului Național Antigrindină și de Creștere a Precipitațiilor : nivel de calificare 1, Editura Darclee, ISBN 978-606-9010-20-462, București, 2021.

B. Articles listed in Web of Science

1. Ursu, A.; **Istrate, V.**; Jitariu, V.; Lazăr, I.-L. 2025. Hail Damage Detection: Integrating Sentinel-2 Images with Weather Radar Hail Kinetic Energy. *Remote Sens.* 17, 3850. <https://doi.org/10.3390/rs17233850>
2. **Istrate, V.**, Eremeico, S., Lazăr I.-L., Sîrbu, D.A., Popescu, E., Sîrbu, E., Popescu, D.D. 2025. Radar characteristics of seeded and unseeded hail clouds in Romania, *Atmospheric Research*, Volume 320, 108028, ISSN 0169-8095, <https://doi.org/10.1016/j.atmosres.2025.108028>
3. **Istrate V.**, Eremeico, S., Sîrbu, D.A., Popescu, E., Sîrbu, E., Popescu, D.D. 2024. Investigation on radar characteristics of hailstorms seeded with the glaciogenic reagent in Romania. *Pres. Env. and Sust. Dev.* 18 (1), 21-32. <https://doi.org/10.47743/pesd2024181002>
4. Istrate, G.-A.; **Istrate V.**; Ursu A.; Ichim P.; Breabăn, I.-G. 2023. Using Diachronic Cartography and GIS to Map Forest Landscape Changes in the Putna-Vrancea Natural Park, Romania. *Land*, 12, 1774. <https://doi.org/10.3390/land12091774>
5. Sfică L.; **Istrate V.**; Hriţac R.; Machidon O.-M. 2023. The continental and regional synoptic background favorable for hailstorms occurrence in North-Eastern Romania. *Prog. Phys. Geogr.: Earth and Environment*, 47(1), 3–31. <https://doi.org/10.1177/03091333221100819>
6. **Istrate V.**, Dobri R.V., Bărcăcianu F., Ciobanu R.A. Apostol L., Sounding-derived parameters associated with severe hail events in Romania. *Időjárás*, 125(1), 2021, 39-52, <https://doi.org/10.28974/idojaras.2021.1.2>
7. **Istrate V.**; Jitariu V.; Ichim P.; Machidon O.-M.; Apostol L. 2021. Hailstorm risk assessment for crop areas in Moldova Region (Romania), *Present Environment and Sustainable Development*, 15 (2), p. 55-67, <https://doi.org/10.15551/pesd2021152005>
8. **Istrate V.**, Dobri R.V., Bărcăcianu F., Ciobanu R.A. Apostol L. 2017. A ten years hail climatology based on ESWD hail reports in Romania, 2007-2016. *Geographia Technica*, Vol 12, Nr. 2/2017, pp. 110-118, https://doi.org/10.21163/GT_2017.122.10
9. Bărcăcianu F., **Istrate V.**, Bocancea R.S. 2016. The influence of absolute thermal inversion on the relative humidity in the lower troposphere, *Geographia Technica*, Vol 11, Issue no. 1/2016, pp. 6-12, ISSN 2065-4421, https://doi.org/10.21163/GT_2016.111.02
10. Ichim P., Apostol L., Sfică L., Kadhim-Abid A.-L., **Istrate V.** 2014. Frequency and intensity of thermal inversions between Siret and Prut rivers in 2013. *Present Environment and Sustainable Development*, vol 8, p. 267-289, <https://doi.org/10.2478/pesd-2014-0040>

C. Articles listed in conferences proceedings listed in Web of Science:

1. **Istrate V.**, Mişu-Pintilie A., Lupaşcu A., Irka H., Teleagă E. 2018. Paleoenvironment data and vegetation history from a small mesotrophic site in the Curvature Subcarpathians. case study: Ink quaking bog, Romania, 4th INTERNATIONAL SCIENTIFIC CONFERENCE GEOBALCANICA 2018, Vol. 4, pp 79-86, <http://dx.doi.org/10.18509/GBP.2018.09>
2. Iordache I., Ursu A., Apostol L., Iosub M., **Istrate V.** 2016. Using modis imagery for risk assessment in the cross - border area Romania-Republic of Moldova. 16th International Multidisciplinary Scientific GeoConference SGEM 2016, At Albena, Bulgaria, Volume: Photogrammetry and Remote Sensing, ISBN 978-619-7105-59-9 / ISSN 1314-2704, June 28 - July 6, 2016, Book 2 Vol. 2, 1075-1082 pp, <https://doi.org/10.5593/SGEM2016/B22/S10.137>, <http://sgem.org/sgemlib/spip.php?article8425&lang=en>.
3. **Istrate V.**, Axinte A.D., Apostol L., Florea D., Machidon O.M. 2016. The efficacy of hail suppression in Iaşi county (Romania) - Case study 09 July 2015. 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings – Air Pollution and Climate Change, ISBN 978-619-7105-64-3 / ISSN 1314-2704, June 28 - July 6, 2016, Book 4 Vol. 2, 631-638 pp, <https://doi.org/10.5593/SGEM2016/B42/S19.081>, <http://sgem.org/sgemlib/spip.php?article8245&lang=en>

4. Ursu A., Ungureanu O.A., **Istrate V.**, Acuculiței, A., Buciumanu A. 2015. The forest area changes in the Prut river watershed (Romania), 15th International Multidisciplinary Scientific GeoConference SGEM 2015, Conference Proceedings - Informatics, Geoinformatics and Remote Sensing, pp. 1131 – 1138, ISBN 978-619-7105-35-3, ISSN 1314-2704, <https://doi.org/10.5593/SGEM2015/B22/S11.141>
5. 10.Sfîcă L., Apostol L., **Istrate V.**, Lesenciuc D., Necula M-F. 2015. Instability indices as predictors of atmospheric lightning - Moldova region study case, 15th International Multidisciplinary Scientific GeoConference SGEM 2015, Conference Proceedings - Hydrology and Water Resources, pp. 387 – 394, ISBN 978-619-7105-36-0, ISSN 1314-2704, <https://doi.org/10.5593/SGEM2015/B31/S12.050>

D. Articles published in conference proceedings from abroad (full text)

1. **Istrate V.**, Mișu-Pintilie A., Lupașcu A., Teleagă E. 2020. Paleoenvironment of Hallstatt Archaeological Sites in the Eastern Romanian Subcarpathians, în: Emilian Teleaga (ed.), *Funeralkultur der Thraker und Skythen des 7. bis 5. Jahrhunderts v.Chr. an der unteren Donau*, în seria: Emilian Teleaga, Diana Gergova, Andreas Müller-Karpe, Narcis Torbov (ed.), *Studien zur Eisenzeitlichen Archäologie Thrakiens*, Vol. 5, ISBN: 978-3-86757-885-1 (Rhaden 2020), pag. 63-73.
2. Axinte A.D., Apostol L., **Istrate V.**, Florea D. 2016. Generalities regarding national hail suppression and rainfall enhancement system in eastern Romania, Conference Paper: Life Science in the Dialogue of Generations: "Connections Between Universities, Academia and Business Community, Chisinau 2016.

E. Articles listed in International Data Bases

1. **Istrate V.**, Apostol L., Bărcăcianu F., Iordache I., Sfîcă L. (2016) Precursor weather conditions for hail-event forecasting in the Moldavia, Conference Proceedings "Air and Water components of the environment", Cluj-Napoca, vol. 8, p. 203-209, ISSN: 2067-743X, https://doi.org/10.17378/AWC2016_26
2. **Istrate V.**; Podiuș D.; Sîrbu D.-A.; Popescu E.; Sîrbu E.; Popescu D-D. (2023). Characteristics of Convective Parameters Derived from Rawinsonde and ERA5 Data Associated with Hailstorms in Northeastern Romania. *Meteorology*, 2, 387-402. <https://doi.org/10.3390/meteorology2030023>
3. **Istrate V.**, Axinte A.D., Florea D., Barcacianu F., Apostol L. 2019. Characteristics and impacts of the severe hailstorms on 18 June 2016 in northern Moldavia, Romania. 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, Vol 19, Book 4.1, pp 899-906, <https://doi.org/10.5593/sgem2019/4.1/S19.114>
4. **Istrate V.**, Ursu A., Dobri R.-V. Axinte A.D, Stoica D. 2019. Hail suppression system in Romania and its relation with land cover. 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, Vol 19, Book 2.2, pp 871-878, <https://doi.org/10.5593/sgem2019/2.2/S11.107>
5. Dobri R.-V., Apostol L., **Istrate V.** 2019. Characteristics of precipitations distribution induced by cut-off low cyclone activity in Romania during the warm semester. 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, Vol 19, Book 4.1, pp 907-914, <https://doi.org/10.5593/sgem2019/4.1/S19.115>
6. Ursu A., **Istrate V.**, Istrate A. (2015) Utilizarea S.I.G. în identificarea biotopurilor potențiale ale unor specii de mamifere din bazinul superior al Putnei (Romania), *Materialele Simpozionului International Sisteme Informationale Geografice*, Editia a XXII-A, Chisinau 2015.
7. **Istrate V.**, Apostol L., Sfîcă L., Iordache I., Bărcăcianu F. (2015) The status of atmospheric instability indices associated with hail events throughout Moldova, Conference Proceedings "Air and Water components of the environment", Cluj-Napoca, vol. 7, p. 323-331, https://doi.org/10.17378/AWC2015_43
8. Teleagă E., Sîrbu D., Constantinescu M., Ștefana S., **Istrate V.** 2015. Neue archäologische untersuchungen derhallstattzeitlichen nekropole in Bârsești, jud. Vrancea, *Caiete ARA*, vol.6, 2015, pp. 151-166, ISSN: 2068-0686, http://simpara.ro/files/preview_ara_6/01_Emilian%20Teleaga_et_al_ARA_6_2005.pdf.

ANNEX 2 LIST OF PAPERS PRESENTED AT SCIENTIFIC MEETINGS

1. **Iași, Romania, 13 June 2025, XX-th edition International Conference Present Environment and Sustainable Development**
 - **Istrate V.**, Serghei E., Lazăr I.-L., Sirbu D.-A., Popescu E., Sirbu E., Popescu D.-D. *Assessing hail suppression in Romania: a dual-study analysis of cloud seeding effects using radar data.*
2. **Abu Dhabi, EAU, 26-30 January 2025. 7th International Rain Enhancement Forum,**
 - **Istrate V.**, Sirbu D.-A., Popescu E., Sirbu E., Popescu D.-D., Serghei E., Abshaev A. *Exploring Fixed-Wing UAVs for Enhanced Cloud Seeding: Innovations in Weather Management,*
3. **Iași, Romania, 7-9 June 2024, XIX-th edition International Conference Present Environment and Sustainable Development**
 - **Istrate V.**, Dobri R.-V., Lazar I.-L., Sirbu D.-A., Popescu E., Sirbu E.I, Popescu D.-D. *Convective storms and associated extreme weather events from April month in Romania (2008-2024).*
4. **Denver, Colorado, USA, 18 -20 Aprilie 2023, Weather Modification Association Annual Meeting**
 - Sirbu D. A., **Istrate V.**, Eremeico S., Dobircianu S., Căuneii-Florescu G. *Hail suppression in Romania - the estimation of seeding effect using radar parameters,*
5. **Berlin, Germany, 11 to 20 July 2023, CityCube, , 28th IUGG General Assembly (IUGG2023)**
 - **Istrate V.**, Eremeico S., Lazăr I.-L., Popescu D.-D. *A physical evaluation of a hail suppression project in Romania using radar data*
6. **Iași, Romania, 9-10 June 2023, XVIII-th edition International Conference Present Environment and Sustainable Development**
 - **Istrate V.**, Sirbu D.A., Eremeico S., Lazăr I.-L., Dobircianu S. *Influence of glaciogenic seeding on the radar characteristics of hail clouds*
7. **Karlsruhe Institute of Technology, Germania, 15 March – 18 March 2021, 3rd European Hail Workshop:**
 - **Istrate V.**, Emil S., Eremeico S., Lazăr I.L. *European Severe Weather Database hail reports in Romania – Climatology and analysis sounding-derived parameters*
8. **Iași, Romania, 18 June 2021, XVI-th edition International Conference Present Environment and Sustainable Development:**
 - **Istrate V.**; Jitariu V. Ichim P. Machidon O.-M.; Apostol L. *Hailstorm risk assessment for crop areas in Moldova Region (Romania)*
9. **Iași, Romania, 21 November 2020, XV-th edition International Conference Present Environment and Sustainable Development:**
 - Jitariu V., **Istrate V.**, Ursu A.n, Ichim P., Istrate A. *Tracking the hail impact on orchards through remote sensing methods. Study case: 18. 06. 2016*
10. **Albena, Bulgaria, 30 June - 6 July, 2019, 19th International Multidisciplinary Scientific GeoConference SGEM 2019:**
 - **Istrate V.**, Axinte A.D., Florea D., Barcacianu F., Apostol L. *Characteristics and impacts of the severe hailstorms on 18 June 2016 in northern Moldavia, Romania*
 - **Istrate V.**, Ursu A, Dobri R.-V, Axinte AD., Stoica D.. *Hail suppression system in Romania and its relation with land cover*
 - Dobri R.-V., Apostol L., **Istrate V.** *Characteristics of precipitations distribution induced by cut-off low cyclone activity in Romania during the warm semester.*
11. **Iași, Romania, 2 – 4 Iunie 2017, Present Environment and Sustainable Development, Ediția a XII-a:**
 - **Istrate V.**, Dobri R.V., Bărcăcianu F., Apostol L., Sfică L., *Sounding-derived parameters associated with ESWD hail reports in Romania.*
 - Axinte A.D., Daniel F., Vasilică I., Liviu A. *A case of supercell hailstorms in Iasi County, Romania-damages, radar parameters and the necessity of Hail Suppression System.*
12. **Constanța, Romania, 21 - 22 august 2017, Simpozionul de Climatologie Aplicată I. F. Mihăilescu:**
 - **Istrate V.**, Dobri R.V., Bărcăcianu F., Ciobanu R.A., Apostol L. *A ten years hail climatology based on ESWD hail reports in Romania*
13. **Margburg, Germania, 30 noiembrie - 02 decembrie 2017, Funeral culture from 7-5 Centuries B.P. at Lower Danube:**
 - **Istrate V.**, Miha-Pintilie A., Teleagă E. *Paleoenvironment of Hallstatt archaeological sites from East Romanian Subcarpathians*
14. **Iași, Romania, 02 – 05 June 2016, Ediția a XIV-a Simpozionul Internațional Present Environment & Sustainable Development:**
 - Axinte A.D., Florea D., Istrate V. *Sistemul National Antigriindina si de Crestere a Precipitațiilor din România în contextul influențelor active in atmosferă pe plan mondial*
 - **Istrate V.**, Apostol L., Bărcăcianu F., Iordache I., Sfică L.. *The relationship between atmospheric humidity, rainfall and hail events in Romania*
 - Barcacianu F., **Istrate V.**, Bocancea R. S. *The influence of absolute thermal inversion on the relative humidity in the lower troposphere*
15. **Albena, Bulgaria, 30 iunie – 6 iulie 2016, 16th International Multidisciplinary Scientific GeoConference SGEM 2016:**
 - **Istrate V.**, Axinte A.D., Apostol L., Florea D., Machidon O.M. *The efficacy of hail suppression in Iași county (Romania) - Case*

study 09 July 2016

16. Cluj-Napoca, Romania, 25 – 27 Martie 2016, The international conference Air and Water - components of the environment:

Istrate V., Apostol L., Bărcăcianu F., Iordache I., Sfică L. *Precursor weather conditions for hail-event forecasting in the Moldavia*

17. Cluj-Napoca, Romania, 28 – 29 Octombrie 2016, Simpozionul internațional Sisteme Informaționale Geografice:

- Ursu A. Istrate V., Iordache I. *Using Sentinel 2 Images for hail damage evaluation in the Moldova region, Romania*

18. Iasi, Romania, 05– 07 June 2015, Present Environment and Sustainable Development:

- Bărcăcianu F., Apostol L., Sîrghie L., Iordache I., Istrate V. *Variations in the air temperature regime in lower troposphere above Romania*

- Axinte A.D., Apostol L., Florea D., Istrate V.; *Programul de Combatere A Grindinei pe teritoriul Moldovei*

19. Iasi, Romania, 16 - 18 octombrie 2015, Lucrările Seminarului Geografic Internațional Dimitrie Cantemir:

- Apostol L., Istrate V., Iordache I., Sfică L. *Umiditatea din troposfera joasă – factor de control al inițierii furtunilor cu grindină Studiu de caz: Romania.*

20. Bucharest Romania, 12-15 november 2015, International Conference – Environment at a Crossroads: SMART approaches for a sustainable future:

- Istrate V., Apostol L., Machidon O.M., Axinte A.D., Florea D. *The necessity for hail suppression system in vineyard and orchard areas from Moldova (Romania)*

21. Iasi, Romania, 02 -04 Octombrie 2015, Simpozionul internațional Sisteme Informaționale Geografice Ediția a XXII-a:

- Istrate V., Ichim P., Ursu A. *Metode de evaluare a stabilității ecologice-Studiu de caz Comunele Bârssești și Tulnici din Jud. Vrancea*

- Ursu A., Ichim P., Andrei M., Istrate V., Kadim-Abid A.L. *Periurbanizarea municipiului Iasi, în raport cu favorabilitatea terenului*

22. Cluj-Napoca, Romania, 20 – 22 Martie 2015, The international conference Air and Water - components of the environment

- Istrate V., Apostol L., Sfică L., Iordache I., Bărcăcianu F. (2015) *The status of atmospheric instability indices associated with hail events throughout Moldova*

23. Albena, Bulgaria, 16 -25 iunie 2015, 15th International Multidisciplinary Scientific GeoConference SGEM 2015:

- Ursu A., Ungureanu O.A., Istrate V., Acuculiței, A., Buciumanu A. 2015. *The forest area changes in the Prut river watershed (Romania)*

24. Chisinau, Republica Moldova, Octombrie 2014, Simpozionul internațional Sisteme Informaționale Geografice Ediția a XXII-a:

- Ursu A., Istrate V., Istrate A. *Utilizarea S.I.G. în identificarea habitatelor potențiale ale unor specii de mamifere din Parcul Natural Putna Vrancea*

- Sfică L., Apostol L., Istrate V., Lesenciuc D., Necula M-F. *Instability indices as predictors of atmospheric lightning - Moldova region study case*

25. Iasi, Romania, 06 – 08 June 2014, Present Environment and Sustainable Development:

- Istrate V., Loghin O.a, Sfică L. *The use of sounding station indices in forecasting hail occurrence in Moldova – case study-summer of 2013.*

ANNEX 3 LIST OF SCIENTIFIC RESEARCH CONTRACTS

Member in teams of national grants				
Nr crt	Title of contracts, number of identification	Period	Sum (lei)	members
1.	Burials and Funerary Customs in the Late Hallstatt Period in the Lower Danube Region," "Vasile Pârvan" Institute of Archaeology, Bucharest; Project Leader: Dr. Emilian Teleagă; UEFISCDI, PN-II-RU-TE-2014-4-1602.	2016 -2017	550 000	7
2.	Services for mapping species and habitats, as well as producing maps for the scientific studies required to develop management plans for Natura 2000 sites ROSPA0049, ROSCI0391, and ROSCI0255; contract with Stoleriu Cristian-Constantin (Authorized Natural Person), funded through the Sectoral Operational Programme Environment.	2014	1 559 943	6

Member of operational research project teams	
Period	Project name
03.10-03.12. 2023 28.08-28.11.2022	Member of the team for the implementation of the "Experimental program by small-scale local experiments for further weather modification applications using ground-based generator technology. Integrated experimental tests on hail suppression and rain enhancement application using ground generator technology", carried out at UCCG Moldova - 2 Vrancea.
31 October – 10 November 2023	Meteorological Radar operator in the Experimental Program through small-scale local experiments for rain enhancement in the regions of Banat, Western Oltenia, South-East and North-North-East Romania" - Integrated experimental tests for rain enhancement application using aviation technology - Small-scale local experiments, Craiova International Airport - Oltenia Area, Timisoara International Airport - Western Romania
27 April – 15 may 2022 09 – 19 July 2022 10- 29 october.2022	Meteorological Radar operator in the Experimental Program through small-scale local experiments for rain enhancement in the regions of Banat, Western Oltenia, South-East and North-North-East Romania" - Integrated experimental tests for rain enhancement application using aviation technology - Small-scale local experiments, Mihail Kogalniceanu Airport, Constanta - Dobrogea Area; Iasi International Airport - North-East Romania, Bacau International Airport - South-East Romania, Craiova International Airport - Oltenia Area, Satu Mare International Airport - North-West Romania https://www.asnarp.eu/wp-content/uploads/2022/07/Comunicat-de-presa-21.07.2022.pdf
23.10.2019-05.11.2021	Meteorological Radar operator in the Experimental Program through small-scale local experiments for rain enhancement in the regions of Banat, Western Oltenia, South-East and North-North-East Romania" - Integrated experimental tests for rain enhancement application using aviation technology - Small-scale local experiments, Mihail Kogalniceanu Airport, Constanta - Dobrogea Area;
25.11.2019-09.12.2019	Meteorological Radar operator in the Experimental Program through small-scale local experiments for rain enhancement in the regions of Banat, Western Oltenia, South-East and North-North-East Romania" - Integrated experimental tests for rain enhancement application using aviation technology - Small-scale local experiments, Mihail Kogalniceanu Airport, Constanta - Dobrogea Area;

14.07.2026

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