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Domenii de cercetare

Meteorologie
Climatologie

Proiecte de cercetare

- 1) Extreme weather events in Romania. Heat waves. Characteristics, Causes, Impact. GTC_34025/2013 din 01.11.2013. Finanțat de UBB. 2013-2014 (director de proiect)
- 2) Extreme weather events related to air temperature and precipitation in Romania PN II RU-TE-2014-4-0736. Finanțat de UEFISCDI. 2015-2017 (director de proiect)
- 3) A model to predict and prevent possible disastrous effects of toxic pollution in the Tisza River watershed NATOS FP 984440. (2014-2017) (membru în echipa proiectului)
- 4) Green Path Toward Sustainable Development (Calea verde spre dezvoltare durabilă) - EEA GRANTS 2009 – 2014 (2015-2017) (expert schimbări climatice)

- 5) How much is the climate changing? Stochastic analysis of proxy and instrumental series in the Europe of the last Millennium. Manager de proiect: prof. I. Haidu. CNCSIS, Grant tip A Cod 1332/2006. 2006-2008 (membru in echipa de cercetare)
- 6) Urban air quality monitoring in Cluj County in the context of present climate changes Manager de proiect: prof. Iv. Haiduc (lect. Simion Beldean-Galea). ANCS, Grant tip Capacități, Cod 91/13.09. 2007-2009 (membru in echipa de cercetare)
- 7) Support for the updating of the Ploiesti Growth Pole Integrated Development Plan (PLOIESTI GROWTH POLE RAS). Manager de proiect: Marcel Ionescu-Heroiu, Budget: 591.127 RON, 2015. Finanțat de Banca Mondială. 2015 (membru in echipa de cercetare)
- 8) Danube Delta Integrated Sustainable Development Strategy, Manager de Proiect: Marcel Ionescu-Heroiu, Budget: 1.283459 ron, 2015. Finanțat de Banca Mondială. 2015 (membru in echipa de cercetare)

Publicații (selecții)

Cărți

- 1) Fărcaș, I., **Croitoru, Adina-Eliza** (2003), *Poluarea atmosferei și schimbările climatice, cauze, efecte, măsuri de protecție*, Editura Casa Cărții de Știință, Cluj-Napoca, 110 p.
- 2) **Croitoru, Adina-Eliza** (2003), *Fenomene climatice de risc, Caiet de lucrări practice*, Editura Nereamia Napocae, Cluj-Napoca, 110 p.
- 3) **Croitoru, Adina-Eliza** (2006), *Excesul de precipitații din Depresiunea Transilvaniei*, Editura Casa Cărții de Știință, Cluj-Napoca, 258 p.
- 4) **Croitoru, Adina-Eliza**, Sorocovschi Victor (2012), *Introducere in biometeorologia umană*, Casa Cartii de Stiinta, Cluj-Napoca, 200p.
- 5) Racoviceanu Sorina, Cristea Marius, China Andreea, Sandu Dumitru, **Croitoru Adina**, Moldovan Ciprian, Man Titus, Rusu Raularian, Iamandi Catalina, Ciobanu Silviu, Ciucanu Ioana, Ionescu-Heroiu Marcel, Burduja Sebastian, Vințan Adina, Cosma Florin, Herbel Ioana, Rus Ionut (2016), *Strategia integrata de dezvoltare urbană pentru Polul de Creștere Ploiești 2014-2020*, World Bank, 464 p.

Capitole în cărți

- 1) Moldovan F., **Croitoru Adina-Eliza**, Holobacă, I.H (2004), *Cap. I. Componenta naturală a bazei de susținere, B. Potențialul climatic și riscurile asociate*, p. 16-22, capitol în *Planul de amenajare a teritoriului Regiunii de Nord-Vest (PATR) – coordonate majore*, Editura Presa Universitară Clujeană, coordonator prof. univ. dr. P. Cocean, 273 p.
- 2) Moldovan F., **Croitoru Adina-Eliza** (2007), *Potențialul climatic - disfuncționalități*, capitol în *Amenajarea teritoriilor periurbane. Studiu de caz: zona periurbană Bistrița*, coordonator: P. Cocean, Presa Univeristară Clujeană, 272 p.
- 3) **Croitoru Adina-Eliza** (2009), *Potențialul și riscurile climatice. Domeniul schiabil* capitol în *Mărginimea Sibiului. Planificare și amenajare teritorială*, 282 p., ISBN: 978-973-610-962-1.
- 4) Moldovan, F., **Croitoru Adina-Eliza**, Holobacă I.H (2011), *Potențialul climatic*, capitol în *Strategii de dezvoltare urbana. Studiu de caz: Municipiul Craiova* coordonator: P. Cocean, Presa Univeristară Clujeană, 226 p.

Articole publicate în reviste și proceeding indexate în baza de date Web of Knowledge (ISI):

- 1) Solantie, R., Frisk, K., **Croitoru, Adina-Eliza** (2006), *Major Summer cloudburst in Finland: synoptic origins and impact*, în *Weather*, Vol. 61, No. 6, Published by Royal Meteorological Society, pp. 159-163. (ISSN 00431656). 2012
- 2) **Croitoru Adina Eliza**, Holobaca Iulian Horia, Lazar Catalin, Moldovan Florin, Imbroane Alexandru (2012), Air temperature trend and the impact on winter wheat phenology in Romania, *Climatic Change: Volume 111, Issue 2, Page 393-410*. DOI: 10.1007/s10584-011-0133-6. (2012 IF: 3.634, 2015 IF: 3.344)
- 3) **Croitoru, Adina-Eliza**, Drignei, D., Holobaca, I.H., Dragota, Carmen Sofia (2012), Change-Point Analysis for Serially-Correlated Summit Temperatures in the Romanian Carpathians, *Theoretical and Applied Climatology*, Volume 108, Issue 1-2, pp 9-18. DOI:10.1007/s00704-011-0508-7.(2012 IF: 1.759, 2015 IF: 2.433).
- 4) **Croitoru Adina-Eliza**, Piticar Adrian (2013) Changes in daily extreme temperatures in the extra-Carpathians regions of Romania, *Int. J. Climatol.*, Volume 33, Issue 8, pages 1987–2001, 30 June 2013. DOI: 10.1002/joc.356. (2013 IF: 3.398; 2015 IF: 3.609)
- 5) **Croitoru Adina-Eliza**, Piticar Adrian, Imbroane Alexandru Mircea, Burada Doina Cristina (2013), Spatiotemporal distribution of aridity indices based on temperature and precipitation in the extra-Carpathian regions of Romania, *Theor Appl Climatol*, May 2013, Volume 112, Issue 3-4, pp 597-607. DOI 10.1007/s00704-012-0755-2. (2013 IF: 1.742, 2015: 2.433)
- 6) **Croitoru Adina Eliza**, Chiotoroiu Brindusa Cristina, Ivanova Todorova Veneta, Torica Vasile (2013), Changes in precipitation extremes on the Black Sea Western Coast. *Global and Planetary Change*, 102, 10-19. DOI: 10.1016/j.gloplacha.2013.01.004. (2013 IF: 3.707; 2015 : 3.548)
- 7) **Croitoru Adina-Eliza**, Chiotoroiu Brindusa-Cristina, Todorova Ivanova Veneta, Torica Vasile (2013), Changes in seasonal and annual precipitation on the Western Coast of the Black Sea. *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, p. 551-558. DOI:10.5593/SGEM2013/BD4/S19.006
- 8) Chiotoroiu Brindusa-Cristina, Todorova Ivanova Veneta, **Croitoru Adina-Eliza**, Torica Vasile (2013), Blizzard consequences in the Eastern parts of Bulgaria and Romania in January 2010. A comparative study. *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, p. 543-550. DOI:10.5593/SGEM2013/BD4/S19.005
- 9) Tudose Traian, **Croitoru Adina-Eliza**, Haidu Ionel (2013), Some Aspects on Rainfall Maximum Intensity in Northwestern Romania. *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, p. 771-778. DOI:10.5593/SGEM2013/BD4/S19.034
- 10) **Croitoru Adina-Eliza**, Piticar Adrian, Dragotă Carmen Sofia, Burada Doina Cristina (2013), Recent changes in reference evapotranspiration in Romania, *Global and Planetary Change*, 111 (December), 127-137. DOI: 10.1016/j.gloplacha.2013.09.004 (2013 IF : 3.707; 2015 : 3.548).
- 11) **Croitoru Adina-Eliza**, Bătinaș Răzvan Horațiu, Mureșan Liana (2014) Analysis of NO_x air quality indicators in urban area of Cluj County, Romania, *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, p. 281-288. ISBN 978-619-7105-15-5 /ISSN 1314-2704. DOI: 10.5593/sgem2014B41.

- 12) **Croitoru Adina-Eliza**, Piticar Adrian (2014), Changes in hot extreme temperature indices in Carpathian and intra-Carpathian areas of Romania, *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, p. 305-312. ISBN 978-619-7105-15-5 /ISSN 1314-2704. DOI: 10.5593/sgem2014B41
- 13) **Croitoru Adina-Eliza**, Antonie Raluca Ioana, Rus Adina (2014), Heat waves and their estimated socio-economic impact in Bucharest city, Romania. *Energy and Clean Technology, Conference proceedings*, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, p. 375-382. ISBN 978-619-7105-15-5 /ISSN 1314-2704. DOI: 10.5593/sgem2014B41
- 14) Imbroane Alexandru, **Croitoru Adina-Eliza**, Herbel Ioana, Rus Ionuț, Petrea Dănuț (2014), Urban heat island detection by integrating satellite image data and GIS techniques. Case study: Cluj-Napoca city, Romania. Proceedings of the 14th International Multidisciplinary Scientific Geoconference SGEM 2014, 17-26 June, Albena, Bulgaria, pp. 359-366.
- 15) **Croitoru Adina-Eliza**, Drignei Dorin, Dragotă Carmen Sofia, Imecs Zoltan, Burada Doina Cristina (2014), Sharper Detection of Winter Temperature Changes in the Romanian Higher-Elevations, *Global and Planetary Change*. Volume 122, November, 122–129. DOI: 10.1016/j.gloplacha.2014.08.011(2014 IF : 2.766 ; 2015 : 3.548).
- 16) **Croitoru Adina-Eliza**, Minea Ionuț (2015) The impact of climate changes on rivers discharge in Eastern Romania, *Theor Appl Climatol*. 120, 563–573. DOI 10.1007/s00704-014-1194-z. (2015 IF: 2.433)
- 17) **Croitoru Adina-Eliza**, Piticar Adrian, Burada Doina Cristina (2016), Changes in precipitation extremes in Romania, *Quaternary International*, 415, 10 September: 325–335, doi:10.1016/j.quaint.2015.07.028. (2015 IF: 2.067)
- 18) **Croitoru Adina-Eliza**, Drignei Dorin, Burada Doina Cristina, Dragotă Carmen Sofia, Imecs Zoltan (2015), Altitudinal changes of summer air temperature trends in the Romanian Carpathians based on serially correlated models, *Quaternary International*, 415, September, 336–343. doi:10.1016/j.quaint.2015.05.075 (2015 IF: 2.067). 10 September 2016,
- 19) Minea Ionuț, **Croitoru Adina-Eliza**, (2015) Climate changes and their impact on the variation of groundwater level in the Moldavian Plateau (Eastern Romania), *International Multidisciplinary Scientific Geoconferences, SGEM 2015 Proceedigs* (ISBN: 978-619-7105-13-1), p. 137-145.
- 20) Herbel Ioana, **Croitoru Adina-Eliza**, Rus Ionuț, Harpa Gabriela Victoria, Ciupertea Antoniu-Flavius (2016), Detection of Atmospheric Urban Heat Island through Direct Measurements in Cluj-Napoca City, Romania, *Hungarian Geographical Bulletin*, vol. 67, 2: 117-128.
- 21) Beldean-Galea Mihail Simion, Mihăiescu Radu, Arghiuș Viorel, **Adina Croitoru**, Horvath Csaba, Coman Virginia (2016), Occurrence and Sources of Polycyclic Aromatic Hydrocarbons in the Tisza River and its Romanian Tributaries, *Water, Air, and Soil Pollution*, 227:377. DOI 10.1007/s11270-016-3088-4 (2015 IF: 1.551, SRI: 0.915)
- 22) Tudose Traian, **Croitoru Adina-Eliza**, Harpa Gabriela Victoria, Scripcă Sabina Andreea Some Characteristics of Maximum Annual and Seasonal Quantities of Rainfall Registered in 24 hours in Romania, *SGEM-2017*.
- 23) Rosca Cristina Florina, Harpa Gabriela Victoria, **Croitoru Adina-Eliza**, Herbel Ioana, Imbroane Alexandru Mircea, Burada Doina Cristina (2016), The impact of climatic and non-climatic factors on land surface temperature in Southwestern Romania, *Theoretical and Applied Climatology*. Online first: DOI 10.1007/s00704-016-1923-6 (2015 IF: 2.433: SRI: 1.057).

Articole publicate în reviste și proceeding indexate în baza de date BDI:

- 1) **Croitoru Adina-Eliza**, Chitoroiu Brîndușa Cristina, Torică Vasile (2012), Dry spells on the Romanian Black Sea Coast. Proceedings of Aerul și Apa: Componente ale Mediului International Conference, p. 105-112.

- 2) Neagu Maria Luminița, **Croitoru Adina-Eliza**, Irimuş Ioan Aurel, Rusz Otilia (2012), The Role of Climatic Factors on Forest Landscape Change in the Gurghiu Basin. Proceedings of Aerul și Apa: Componente ale Mediului International Conference, p. 381-388.
- 3) **Croitoru Adina-Eliza**, Chiotoroiu Brindusa-Cristina, Todorova Ivanova Veneta, Torica Vasile (2013), Changes in seasonal and annual precipitation on the Western Coast of the Black Sea. Energy and Clean Technology, Conference proceedings, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, p. 551-558. DOI:10.5593/SGEM2013/BD4/S19.006
- 4) **Croitoru Adina-Eliza** (2014), Heat waves. Concept, definition and methods used to detect. Riscuri și catastrofe, anul XIII, vol. XV, nr. 2, p. 25-32.
- 5) **Croitoru Adina-Eliza**, Bătiñaș Răzvan Horațiu, Mureșan Liana (2014) Analysis of NOx air quality indicators in urban area of Cluj County, Romania, Energy and Clean Technology, Conference proceedings, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, p. 281-288. ISBN 978-619-7105-15-5 /ISSN 1314-2704. DOI: 10.5593/sgem2014B41.
- 6) **Croitoru Adina-Eliza**, Piticar Adrian (2014), Changes in hot extreme temperature indices in Carpathian and intra-Carpathian areas of Romania, Energy and Clean Technology, Conference proceedings, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, p. 305-312. ISBN 978-619-7105-15-5 /ISSN 1314-2704. DOI: 10.5593/sgem2014B41
- 7) Herbel Ioana, **Croitoru Adina Eliza**, Imbroane Alexandru Mircea, Petrea Dănuț (2015), Methods to detect atmospheric and surface heat islands in urban areas, Riscuri și catastrofe, anul XIV, vol. XVII, nr. 2, p. 25-32.
- 8) Herbel Ioana, **Croitoru Adina-Eliza**, Rus Ionuț, Harpa Gabriela Victoria, Ciupertea Antoniu-Flavius (2016), Detection of Atmospheric Urban Heat Island through Direct Measurements in Cluj-Napoca City, Romania, Hungarian Geographical Bulletin, vol. 67, 2: 117-128.
- 9) Tudose Traian, **Croitoru Adina-Eliza**, Harpa Gabriela Victoria, Scripcă Sabina Andreea (2016) Some Characteristics of Maximum Annual and Seasonal Quantities of Rainfall Registered in 24 hours in Romania, SGEM-2016, Book 4, Energy and Clean Technologies, vol II, 555-562.

Participări la conferințe

Conferințe internaționale

- 1) 19-20 martie 2012, Conferința Aerul și apa componente ale mediului, ediția a IV-a. Cluj-Napoca. Lucrare prezentată: „Dry spells on Romanian Black Sea Coastline” (autori: Croitoru Adina-Eliza, Chiotoroiu Brindusa-Cristina, Torica Vasile)
- 2) 1-3 iunie 2012, Simpozionul International Mediul Actual si Dezvoltarea Durabila, Editia a VII-a, Iasi, Lucrare prezentata : Indici de ariditate in Câmpia Olteniei; Autori : Rosca Cristina Florina, Croitoru Adina-Eliza, Burada Cristina
- 3) 12-14 octombrie 2012, Seminarul Geografic International Dimitrie Cantemir, Editia a XXXII-a, Lucrare prezentata : Tendințe și corelații în sistemul precipitației-scurgere de suprafață în partea de est a României ; Autori : Croitoru Adina, Minea Ionuț.
- 4) 18-20 octombrie 2013, Seminarul Geografic International Dimitrie Cantemir, Editia a XXXIII-a, Lucrare prezentata : Changes in humidity index in Southern Romania; Autori : Croitoru Adina, Piticar Adrian, Dragota Carmen Sofia, Imbroane Mircea Alexandru, Burada Doina Cristina.

- 5) June 2013, the 13th International Multidisciplinary scientific geoconference (SGEM), Albena Bulgaria. Lucrari prezentate: Changes in seasonal and annual precipitation on the Western Coast of the Black Sea. Autori: Croitoru Adina-Eliza, Chiotoroiu Brindusa-Cristina, Todorova Ivanova Veneta, Torica Vasile; Blizzard consequences in the Eastern parts of Bulgaria and Romania in January 2010. A comparative study. Autori: Chiotoroiu Brindusa-Cristina, Todorova Ivanova Veneta, Croitoru Adina-Eliza, Torica Vasile;
- 6) Tudose Traian, Croitoru Adina-Eliza, Haidu Ionel (2013), Some Aspects on Rainfall Maximum Intensity in Northwestern Romania. Energy and Clean Technology, Conference proceedings, volume: Renewable energy sources, Recycling, Air pollution and Climate changes, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, p. 771-778. DOI:10.5593/SGEM2013/BD4/S19.034
- 7) 17-26 June 2014, the 14th International Multidisciplinary scientific geoconference (SGEM), Albena Bulgaria. Lucrari prezentate: Analysis of NOx air quality indicators in urban area of Cluj County, Romania, Autori: Croitoru Adina-Eliza, Bătinaș Răzvan Horațiu, Mureșan Liana; Changes in hot extreme temperature indices in Carpathian and intra-Carpathian areas of Romania Autori: Croitoru Adina-Eliza, Piticar Adrian; Heat waves and their estimated socio-economic impact in Bucharest city, Romania, Autori: Croitoru Adina-Eliza, Antonie Raluca Ioana, Rus Adina; Urban heat island detection by integrating satellite image data and GIS techniques, Autori: Imbroane Alexandru, Croitoru Adina-Eliza, Herbel Ioana, Rus Ionuț, Petrea Dănuț
- 8) 6- 9 November 2014, Late Pleistocene and Holocene climatic variability in the Carpathian-Balkan region (CBW2014) Cluj-Napoca, Romania, Lucrări prezentate: Trends of Summer air temperatures in the Romanian Carpathians detected by using a serially correlated errors model. Autori: Adina-Eliza CROITORU, Dorin DRIGNEI , Zoltan IMECS, Doina Cristina BURADA, Changes in precipitation extremes in Romania, Autori: Adina-Eliza CROITORU, Adrian PITICAR, Doina Cristina BURADA
- 9) June 2015, the 15th International Multidisciplinary scientific geoconference (SGEM), Albena Bulgaria. Lucrare prezentata: Climate changes and their impact on the variation of groundwater level in the Moldavian Plateau (Eastern Romania), Autori Minea Ionuț, Croitoru Adina-Eliza.
- 10) 31 August-2 September 2015, Convergence and divergences of Geography in Europe. The fifth EUGEO Congress on the Geography of Europe (Europeann Geographical Association Congress), Budapesta, Ungaria. Lucrări prezentate: Changes in cold and variability extreme temperature indices in Carpathian and intra-Carpathian areas of Romania Autori: Adina-Eliza CROITORU, Adrian Piticar; Atmospheric urban heat island detection by direct measurements in Cluj-Napoca city, Romania, Autori: Ioana Herbel, Adina-Eliza Croitoru, Ionuț Rus, Antonio Flavius Ciupertea, Victoria Harpa.
- 11) June 2016, the 16th International Multidisciplinary scientific geoconference (SGEM), Albena Bulgaria. Lucrare prezentata: Some Characteristics of Maximum Annual and Seasonal Quantities of Rainfall Registered in 24 hours in Romani, Autori: Tudose Traian, Croitoru Adina-Eliza, Harpa Gabriela Victoria, Scripcă Sabina Andreea.
- 12) 21-25 August 2016, Shaping our harmoniuos worlds. The 33rd International Geographical Congress, Beijing China. Lucrare prezentate: Heat Waves in Romania. Regional Features and Changes. Autor: Adina-Eliza Croitoru

Conferințe naționale

- 1) 10-11 noiembrie 2012, Conferinta Understanding Land, People and Environment: Research and Teaching perspectives in Geography, Universitatea Bucuresti, Facultatea de Geografie. Lucrare prezentată: „Changes in seasonal and annual precipitations on the Western Black Sea Coast” (autori: Croitoru Adina-Eliza, Chiotoroiu Brindusa-Cristina, Ivanova Todorova Veneta, Torica Vasile)

Afilieri la asociații profesionale

- 1) Membru în Asociația Internațională de Climatologie
- 2) Membru în Asociația Română de Climatologie
- 3) Membru în Societatea Română de Meteorologie