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**Area of competence:** general meteorology and climatology; extreme weather and climate events and their impact on environment and society; climate changes; biometeorology (human biometeorology and agroclimatology).

**Research interests** fall into three major areas:

1. **Extreme weather and climate events and their impact on environment and society**

The most significant publications are:

* **Croitoru AE**, Piticar A (2013) Changes in daily extreme temperatures in the extra-Carpathians regions of Romania. *Int. J. Climatol.,* 33(8), 1987–2001.DOI: 10.1002/joc.356.
* **Croitoru AE**, Piticar A, Imbroane AM, Burada DC (2013) Spatiotemporal distribution of aridity indices based on temperature and precipitation in the extra-Carpathian regions of Romania. *Theor. Appl. Climatol.*, 112(3-4), 597-607. DOI 10.1007/s00704-012-0755-2.
* **Croitoru AE**, Chiotoroiu BC, Ivanova Todorova V, Torica V (2013), Changes in precipitation extremes on the Black Sea Western Coast. *Glob Planet Change*, 102, 10-19. DOI: 10.1016/j.gloplacha.2013.01.004.
* **Croitoru AE,** Piticar A, Ciupertea FA, Rosca CF (2016) Changes in heat wave indices in Romania over the period 1961-2015. *Glob Planet Change,* 146, November, 109–121. http://dx.doi.org/10.1016/j.gloplacha.2016.08.016.
* Herbel I, **Croitoru AE**, Rus AV, Roșca CF, Harpa GV, Ciupertea AF, Rus I (2018)The impact of heat waves on surface urban heat island and on local economy in Cluj-Napoca City, Romania. *Theor. Appl. Climatol.,* 133(3–4), 681–695. DOI: 10.1007/s00704-017-2196-4.

1. **Climate changes**

The most significant publications are:

* **Croitoru AE**, Drignei D, Holobaca IH, Dragota CS (2012) Change-Point Analysis for Serially-Correlated Summit Temperatures in the Romanian Carpathians. *Theor. Appl. Climatol*, 108(1-2), 9-18. DOI:10.1007/s00704-011-0508-7.
* **Croitoru AE**, Pititcar A, Dragotă CS, Burada DC (2013) Recent changes in reference evapotranspiration in Romania. *Glob Planet Change*, 111 (December), 127-137. DOI: 10.1016/j.gloplacha.2013.09.004
* **Croitoru AE**, Drignei D, Dragotă CS, Imecs Z, Burada DC (2014) Sharper Detection of Winter Temperature Changes in the Romanian Higher-Elevations. *Glob Planet Change*, 122 (November), 122–129. DOI: 10.1016/j.gloplacha.2014.08.011.
* Piticar A, Ciupertea FA, **Croitoru AE**, Harpa GV (2018)Recent changes in heat waves and cold waves detected based on excess heat factor and excess cold factor in Romania. *Int. J. Climatol*., 38(4), 1777-1793. DOI: 10.1002/joc.5295
* Harpa GV, **Croitoru AE**, Djurdjevic V, Horvath C (2019) Future changes in five extreme precipitation indices in the lowlands of Romania. *Int. J. Climatol.*, 39, 15, 5720-5740, <https://doi.org/10.1002/joc.6183>.

1. **Biometeorologie**

Cele mai semnificative lucrări:

* **Croitoru AE**, Holobaca IH, Lazar C, Moldovan F, Imbroane A (2012) Air temperature trend and the impact on winter wheat phenology in Romania. *Climatic Change*, 111(2), 393-410. DOI: 10.1007/s10584-011-0133-6.
* **Croitoru AE**, Dogaru G, Man TC, Mălăescu S, Motricală M, Scripcă AS (2019) Perceived Influence of Weather Conditions on Rheumatic Pain in Romania. *Advances in Meteorology*, Article ID 9187105, <https://doi.org/10.1155/2019/9187105>.
* **Croitoru AE**, Man TC, Vâtcă SD, Kobulniczky B, Stoian V (2020) Refining the Spatial Scale for Maize Crop Agro-Climatological Suitability Conditions in an Area with Complex Topography towards a Smart and Sustainable Agriculture. Case Study: Central Romania (Cluj County). *Sustainability*, 12(7), 2783; <https://doi.org/10.3390/su12072783>.
* Banc Ș, **Croitoru AE**, David NA, Scripcă AS (2020) Changes Detected in Five Bioclimatic Indices in Large Romanian Cities over the Period 1961–2016. *Atmosphere*, 11(8), 819; https://doi.org/10.3390/atmos11080819.

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