

Jelena Luković

Permanent Address:

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EDUCATION

- 24/12/2013 PhD in Climatology
University of Belgrade, Faculty of Geography, Serbia
PhD thesis:
Spatial pattern of recent climate change in Serbia
- 31/06/2008 MSc in Physical Geography
University of Belgrade, Faculty of Geography, Serbia
MSc thesis:
Temperature change in Serbia based on satellite derived data
- 29/09/2004 BSc in Geography
University of Belgrade, Faculty of Geography, Serbia
BSc thesis:
The impact of climate on farming in Pešter Plateau, Serbia

PRIMARY APPOINTMENTS

- June 2019-present: **Associate Professor**, University of Belgrade, Faculty of Geography, Serbia.
June 2014-May 2018: **Assistant Professor**, University of Belgrade, Faculty of Geography, Serbia
June 2011-May 2014: **Senior Teaching Assistant**, University of Belgrade, Faculty of Geography, Serbia
April 2008-May 2011: **Junior Teaching Assistant**, University of Belgrade, Faculty of Geography, Serbia
March 2005-March 2008: **Researcher**, University of Belgrade, Faculty of Geography, Serbia

RESEARCH INTERESTS

Climate change, Spatial pattern of climate change, Understanding of mechanism of rainfall changes

COURSES TAUGHT

- 2016-present: **Climate change** (Geography department, graduate course)
2016-present: **Climatology** (Geography department, graduate course)
2014-present: **Applied climatology** (Spatial planning department, graduate course)
2015-present: **Nature Conservation** (Geography department, graduate course)

As a professor Dr. Luković understands education as never ending process. During her career, she was involved in teaching, and design of new courses at the Faculty of Geography University of Belgrade. She had a rare opportunity to attend some of the research related courses at the leading universities and got inspired by different school of thought and various teaching methodologies and approaches. She introduced Climate change course at the Faculty of Geography University of Belgrade.

FELLOWSHIPS AND AWARDS (selected)

Fulbright Visiting Scholar Fellow at the University of California Berkeley (2015-2016)

First author of awarded paper on AGU Fall Meeting in San Francisco (2013)

MEMBERSHIPS

American Geophysical Union

European Geophysical Union

Serbian Geographical Society

Young Researchers of Serbia

COMMUNITY SERVICE

Guest editor of Regional Environmental Change Journal (2018)

Guest editor at Advances in Meteorology (2017)

Member of Steering Committee of Commission on Mediterranean Basin-IGU (2016-present)

Member of Editorial board of Bulletin of the Serbian Geographical Society (2015-present)

UNIVERSITY SERVICE

Member, Committee on Course Instruction (2017)

National representative to the International Geographical Union-IGU (2015-present)

SELECTED CONFERENCE/WORKSHOP ORGANIZING

2018: Chair of the MedCLIVAR 2018 conference "Bridging the Mediterranean Climates", Belgrade, Serbia.

2015: Organizing Committee member of GEOMLA workshop and conference on Geostatistics and Machine Learning Applications in Climate and Environmental Sciences, Belgrade.

PhD STUDENTS

Aleksandar Sekulić (co-supervisor-current), Ljubica Duskov (co-supervisor)

GRANTS

2019-2021: UC Berkeley: NEXTOR-II Statement of Work from the FAA Airport Capacity Office: Future Climate Scenarios for Runway Length (Federal US project, member), US\$: 75,382.

2011-2021: CCIAM: "Studying climate change and its influence on the environment: impacts, adaptation and mitigation" (National project-III 43007, Member), EUR 1.225,432

2018-2022: ICTP grant: Climate of the SEE region - from global to local climate impacts (co-PI), EUR: 30,000.

WORKSHOPS/PARTICIPATING

2019: ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics, Trieste.

2016: School on Data Assimilation and Data Analysis Methods, Lecce.

2013: Arc GIS-Geographic Information Software, Belgrade.

2012: Geomedia-Geographic Information Software, Belgrade.

INVITED TALKS

February 2020 The impact of climate change on aviation, CE257, UC Berkeley.

February 2020 The first climate model-Milankovitch Hypothesis, CE257, UC Berkeley.

October 2018 Seasonal shifts in the Mediterranean type climates, University of Zagreb.

June 2018 Spatial pattern of recent rainfall and temperature trends in Serbia, University of Banja Luka.

May 2018 Climate change in Serbia, from the past to the future, University of Kragujevac.

Jan 2017 Climate extremes in Serbia, past, future, University of Belgrade.

RECENT CONFERENCES (selected)

- [1] **Jelena Luković**, John Chiang “Changes in the onset of the rainy season in California” AGU 2019, 9-13 December 2019, San Francisco, California (poster)
- [2] **Jelena Luković**, John Chiang “Seasonal shifts in the Mediterranean type climates” EGU 2018, 8-13 April 2018, Vienna, Austria (oral talk). Convener: Piero Lionello-University of Salento.
- [3] **Jelena Luković**, John Chiang “Western US Hydroclimate changes” AGU Fall Meeting, 12-16 Dec, 2016, San Francisco, California (oral talk). Convener: Céline Bonfils-Lawrence Livermore National Laboratory.
- [4] Jasenka Rakas, Cheng Ding, Aditya Murthi, **Jelena Luković**, Branislav Bajat “Predicting impacts of lightning strikes on aviation under a changing climate” 12-16 Dec, 2016, San Francisco, California (poster).
- [5] **Jelena Luković**, Milan Kilibarda, Dragan Blagojević, Branislav Bajat “Improvement in seasonal rainfall mapping using Regression Kriging” (oral talk), GeoMLA conference, 21-24 June 2016, Belgrade, Serbia.

REVIEWER OF SCIENTIFIC JOURNALS

Theoretical and Applied Climatology
Spatial Statistics
Natural Hazards and Earth System Sciences
Advances in Meteorology

METRICS (Google scholar)

Citations	488
h-Index	13
i10-Index	16

SELECTED PEER REVIEWED JOURNAL PUBLICATIONS

- [1] **Luković J**, Chiang J, Blagojević D (2020). Changes in the onset of the rainy season in California, Geophysical Research Letters, submitted.
- [2] **Luković J**, Bajat B, Blagojević D, Kilibarda M (2015). Spatial pattern of North Atlantic Oscillation impact on rainfall in Serbia, Spatial Statistics, 14, 39-52.
- [3] Kilibarda M, Perčec Tadić M, Hengl T, **Luković J**, Bajat B (2015). Representation and usability of global temperature data for spatio-temporal interpolation, Spatial Statistics, 14, 22-38.
- [4] Kutiel H, **Luković J**, Burić D (2015) Spatial and temporal variability of rain-spells characteristics in Serbia and Montenegro, International Journal of Climatology, 35 (7), 1611-1624.
- [5] Burić D, **Luković J**, Bajat B, Kilibarda M, Živković N (2015) Recent trends in daily rainfall extremes over Montenegro (1951-2010), Natural Hazards and Earth System Sciences, 15 (9) 2069-2077.
- [6] Živković N, Dragičević S, Ristić R, Novković I, Djurdjić S, **Luković J**, Živković Lj, Jovanović S. (2015) Effects of vegetation on runoff in small river basins in Serbia, Fresenius Environmental Bulletin 24 (6), 2082-2089.
- [7] **Luković J**, Bajat B, Kilibarda M, Filipović D (2015) High Resolution Grid of Potential Incoming Solar Radiation for Serbia, Thermal Science, 19, S427-S435.
- [8] **Luković J**, Bajat B, Blagojević D, Kilibarda M (2014). Spatial pattern of rainfall trend in Serbia. Regional Environmental Change, 14(5), 1789-1799.
- [9] Bajat B, Blagojević D, Kilibarda M, **Luković J**, Tošić I (2014). Spatial analysis of the temperature trends in Serbia during the period 1961–2010. Theoretical and Applied Climatology, 117(0), 1-13.
- [10] Burić D, **Luković J**, Ducić V, Dragojlović J, Doderović M (2014). Recent trends in daily temperature extremes over southern Montenegro (1951-2010). Natural Hazards and Earth System Sciences, 14, 67-72.
- [11] Ducić V, **Luković J**, Burić D, Stanojević G, Mustafić S (2012). Precipitation extremes in the wettest Mediterranean region (Krivošije) and associated atmospheric circulation types, Natural Hazards and Earth System Sciences, 12, 687-697.
- [12] Bajat B, Pejović M, **Luković J**, Manojlović P, Ducić V, Mustafić S (2012). Mapping average annual precipitation in Serbia (1961–1990) by using regression kriging. Theoretical and Applied Climatology, 112, 1–13.
- [13] Ducić V, **Luković J**, Milenković M, Čurčić N (2012). North Atlantic Oscillation (NAO) and insect damage in

Serbian forests, *Archive of Biological Science*, Belgrade, 64 (1), 215-219.

OTHER JOURNAL PUBLICATIONS

- [1] Pandžić J, Bajat B, **Luković J** (2013) Mapping probabilities of precipitation occurrence on the territory of the Republic of Serbia by the method of indicator kriging. *Bulletin of the Serbian Geographical Society*, 92:23-40.
- [2] Pejović M, Bajat B, Luković J (2012). Spatial distribution of interpolation uncertainty: case study of isotherm map of Serbia (1991-2009). *Bulletin of the Serbian Geographical Society*. 92(4), 31-50.
- [3] Burić D, Stanojević G, **Luković J**, Gavrilović Lj, Živković N. (2012). Climate change and river discharge: case study Kolubara River, Beli brod hydrological gauge. *Bulletin of the Serbian Geographical Society*, XCII(1), 123-134.
- [4] Ducić V, Burić D, **Luković J**, Stanojević G (2011). The changes of precipitation in Podgorica for period 1951-2010. *Bulletin of the Serbian Geographical Society*, 91(2), 51-70.
- [5] Ducić V, **Luković J**, Stanojević G (2010). Atmospheric circulation and the precipitation variability in Serbia for period 1949-2004. *Bulletin of the Serbian Geographical Society*, XC (2), 85-107.
- [6] Manojlović P, Nikolić M, Mustafić S, **Luković J** (2010). Seasonal variability of Crvena river water mineralization. *Bulletin of the Serbian Geographical Society*, vol. XC (4), 9-21.
- [7] Luković J, Manojlović P, Mustafić S. (2010) Temperature changes on the Earth and in Serbia and North Atlantic oscillation (NAO). *Bulletin of the Serbian Geographical Society*, vol. XC (1), 123-133.
- [8] Ducić V, **Luković J** (2009). Possible causes of contemporary Nisava River discharge variability. *Bulletin of the Serbian Geographical Society*, LXXXIX(4), 255-276.
- [9] **Luković J**, Manojlović P, Mustafić S (2009). Temperature changes in Serbia and worldwide according to satellite data. *Bulletin of the Serbian Geographical Society*, LXXXIX (3), 177-189.
- [10] Ducić V, Savić S, **Luković J** (2008). Contemporary temperature change in Vojvodina, according to observations and satellite data, *Geographica Pannonica*, vol. 12/1, Faculty of Natural Sciences Novi Sad, Department of Tourism, geography and hospitality.
- [11] Ducić V, **Luković J**, Nikolova N (2007). Possible connection between Danube river discharge variability and solar activity. *Bulletin of the Serbian Geographical Society*, vol LXXXVII (1), 31-38.
- [12] Ducić V, Trbić G, **Luković J** (2006). Possible volcanic impact on temperature changes in Republic of Srpska based on satellite data. *Bulletin of Geographical Society of Republic of Srpska*, vol 11, Banja Luka, 112-124.
- [13] Ducić V, Nikolić J, **Luković J** (2006). Recent temperature trend based on satellite data. *Collection of papers of Faculty of Geography*, vol. LIV, 37-46.
- [14] Ducić V, **Luković J** (2005). Relationship between El Nino Southern Oscillation and rainfall variability in Serbia, *Collection of papers of Faculty of Geography*, vol. LIII, 13-22.

BOOKS

- [1] Burić D, Ducić V, **Luković J** (2011) Climate change in Montenegro in second half of XX century, Montenegrin Academy of Art and Science, Podgorica, pp. 272
- [2] **Luković J** (2018) Geography Textbook for Primary School, Freska, Belgrade, pp. 1-155.

PROCEEDINGS

- [1] Manojlović P, Mustafić S, **Luković J**, Milošević M (2012). Chemically dissolved and suspended load in Mlava River basin. International Conference on "Land Conservation-LANDCON 1209: Sustainable land management and climate change", Donji Milanovac, 47-57.
- [2] Burić D, Ducić V, **Luković J**, Mustafić S, Manojlović P (2012). Hydrometeorological assessment of floods in Montenegro at the end of the 2010. International Conference on "Land Conservation-LANDCON 1209: Sustainable land management and climate change", Donji Milanovac, 100-112.
- [3] Манойлович П, Мустафич С, **Лукович Е**, (2009). Сравнительный анализ осадения взвешенных и растворенных веществ в различных природных условиях (бассейны рек Черный Тимок и Белый Тимок, Восточная Сербия). Двадцать четвертое пленарное межвузовское координационное совещание по проблеме эрозионных, русловых и устьевых процессов. Барнаул, 5-9 октября 2009 г.
- [4] Дражицевич С, Мустафич С, Костадинов С, Манойлович П, **Лукович Е**, Милошевич М. (2009). Изменение интенсивности эрозионных, процессов на территории Сербии во второй половине XX века. Двадцать четвертое пленарное межвузовское координационное совещание по проблеме эрозионных, русловых и устьевых процессов. Барнаул, 5-9 октября 2009 г.
- [5] Ducic V, Milovanovic B, **Lukovic J** (2007). Temperature changes on the Balkan Peninsula in the period of satellite observation and possible volcanic influence. Fourth International Conference- Global changes and regional challenges, Sofia University "St. Kliment Ohridski", Faculty of Geology and Geography, 20-22 April 2007, Sofia, Bulgaria, Proceedings.
- [6] Mustafić S, Manojlović P, **Luković J**. (2007). The influence of type of rocks on the chemical erosion in Temstica river basin. International Conference "Erosion And Torrent Control As A Factor In Sustainable River Basin Management", 25-28 September, Belgrade.
- [7] Ducic V, Milovanovic B, **Lukovic J** (2006). Connection between ENSO index, NAO index and decadal scale variability of precipitation in Serbia. Third International Conference- Global changes and regional challenges, Sofia University "St. Kliment Ohridski", Faculty of Geology and Geography, 28-29 April 2006, Sofia, Bulgaria, Proceedings, pp. 137-142.

LANGUAGE KNOWLEDGE

Serbian	Native speaker
English	Fluent
Russian	Very good command
Greek	Very good command