

СПИСЪК НА ПУБЛИКАЦИИ, ДОКЛАДИ, ПРЕЗЕНТАЦИИ, ПОСТЕРИ И ПРОЕКТИ на д-р Рилка Стефанова Вълчева, във връзка с обявен конкурс за академична длъжност „главен асистент“ в област на висше образование 4. Природни науки, математика и информатика, професионално направление професионално направление 4.4. Науки за земята, научна специалност „Метеорология“ (Оценка и развитие на нехидростатични числени модели при симулиране на климатичните промени на екстремни метеорологични явления) към департамент „Прогнози и информационно обслужване“ в НИМХ, обнародван в ДВ брой 64/03.08.2021 г.

ПУБЛИКАЦИИ

1. Spiridonov, V., Valcheva, R., “A new index for climate change evaluation. An example with the ALADIN and RegCM regional models for the Balkans and the Apennines”, Idojaras, Vol. 123, №. 4, October – December, 2019.
2. Spiridonov V., Valcheva R. „Stability of climate change at a given interval in a 30-year future period. Example for the territory of Bulgaria (2021-2050)“, "Proceeding of the Bulgarian Academy of Sciences", Tome 70, № 3, p.405 – 410, 2017.
3. Спиридонов В., Вълчева Р., "Влияние на климатичните промени (до 2050 г.) върху потенциала на възобновяемите енергийни източници (вятър и слънчева радиация) за територията на България", сп. Енергетика, брой 6, Ноември-Декември, стр. 38-46, 2016.
4. Valcheva R., Peneva E., Sensitivity to the parametrization of cumulus convection in the RegCM4.3 simulations focused on Balkan peninsula and Bulgaria, Annual of Sofia University “St. Kliment Ohridski”, Faculty of Physics, Volume 107, p.113 – 132, 2014.
5. Valcheva R., Climate Change Projections According to RCP45 Scenario until 2099 for Bulgaria, Springer in Air Pollution Modeling and its Application vol. XXVII, 2021 (in press).

6. Gadzhev G., Ivanov V., Valcheva R., Ganev K. and Chervenkov H., HPC Simulations of the Present and Projected Future Climate of the Balkan Region, Studies in Computational Intelligence, 2021, 902 SCI, pp. 234–248.
7. Ivanov V., Valcheva R., Gadzhev G., HPC Simulations of the Extreme Thermal Conditions in the Balkan Region with RegCM4, Studies in Computational Intelligence, 2021, 902 SCI, pp. 309–324.
8. Tsenova B., Valcheva R.: Verification of the regional numerical weather prediction with ALADIN-BG in Bulgaria, Bul. J. Meteo & Hydro, Volume 24, №2, p. 1 – 14, 2020.

ДОКЛАДИ, ПОСТЕРИ, ПРЕЗЕНТАЦИИ

1. Valcheva R., Climate Change Projections According to RCP45 Scenario until 2099 for Bulgaria, presentation for the ITM 2019 - 37th International Technical Meeting on Air Pollution Modelling and its Application, Hamburg, Germany, 23 - 27 September 2019.
2. Gadzhev G., Ivanov V., Valcheva R., Ganev K. and Chervenkov H., HPC Simulations of the Present and Projected Future Climate of the Balkan Region, High Performance Computing Conference, Borovets, Bulgaria, 2-6 September, 2019.
3. Ivanov V., Valcheva R., Gadzhev G., HPC Simulations of the Extreme Thermal Conditions in the Balkan Region with RegCM4, High Performance Computing Conference, Borovets, Bulgaria, 2-6 September, 2019.
4. Valcheva R., Temperature and Precipitation Projections According to RCP45 Scenario For Bulgaria and Balkan Peninsula, poster presentation for the Ninth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 28 May – 9 June 2018.

5. Spiridonov V., Valcheva R. “The impact of climate change (until 2050) on the potential of renewable energy sources (wind and solar radiation) for the territory of Bulgaria”, poster presentation for the 27th ALADIN Workshop & HIRLAM All Staff Meeting, Helsinki, Finland, 03 – 07 April 2017.
6. Valcheva R., „Use of satellite information in research and operational activities at NIMH of Bulgaria“, presentation, WMO/EUMETSAT Satellite Products Training Course, Budapest, Hungary, 24- 28 April 2017.
7. Valcheva R. "Validation of Regional Climate Model Version 4.4 (RegCM4.4) for the territory of Bulgaria", poster presentation for the Third National Congress of Physical Sciences, Sofia, Bulgaria 29 September 02 October 2016.
8. Valcheva R., Peneva E., Numerical simulations with different convective schemes over Balkan Peninsula domain using RegCM4.3, presentation for the Seventh ICTP Workshop on Theory and Use of Regional Climate Models, Trieste, Italy, 12 – 23 May 2014.

ПРОЕКТИ

1. Национална Програма „Млади учени и постдокторанти“, модул „Постдокторанти“, срок на осъществяване 01.04.2021 г. - 30.09.2021 г. ;
2. Национална Програма „Млади учени и постдокторанти“, модул „Постдокторанти“, срок на осъществяване 01.03.2020 г. - 31.08.2021 г., Договор №: ЧР-04-7/28.02.2020 г.;
3. Интегрирани действия за съвместна координация и реагиране при риск от наводнения в трансграничната зона – тип проект - международен, срок на осъществяване 01.04.2019 – 01.04.2022, организация изпълнител – Национален институт по метеорология и хидрология;

4. National Science Program "Environmental Protection and Reduction of Risks of Adverse Events and Natural Disasters", approved by the Resolution of the Council of Ministers No 577/17.08.2018 and supported by the Ministry of Education and Science (MES) of Bulgaria (Agreement No D01- 230/06.12.2018);
5. The Bulgarian National Science Fund (grant DN-14/3/13.12.2017);
6. Program for career development of young scientists, Bulgarian Academy of Sciences (grant DFNP- 28/20.04.2016);
7. Program for multidisciplinary training of doctoral students, post-doctoral students and young scientists, financed by the European Social Fund 2007-2013, Operational Program "Human Resources Development" BG051PO001- 3.3.06-0063.

ОБУЧЕНИЕ И СПЕЦИАЛИЗАЦИИ

- Joint LACE Data Assimilation WD and ALADIN Data Assimilation basic kit WD, 18-20 September 2019, Prague, Czech Republic.
- 37th International Technical Meeting on Air Pollution Modelling and its Application (ITM 2019), 23 - 27 September 2019, Hamburg, Germany.
- The 41st European Working Group on Limited-Area Modelling (EWGLAM) and 26th Short Range NWP (SRNWP) EUMETNET meetings, 30 September - 3 October 2019, Sofia, Bulgaria.
- Ninth ICTP Workshop on the Theory and Use of Regional Climate Models, 28 May-9 June 2018, Trieste, Italy.
- WMO/EUMETSAT/FAO Training course on the use of satellite products for drought monitoring and meteorological applications, 24 - 28 April 2017, Budapest, Hungary.
- 27th ALADIN Workshop & HIRLAM All Staff Meeting 2017, 03 - 07 April 2017, Helsinki, Finland.
- ECMWF Annual Seminar 2015: Physical processes in present and future large- scale models, 01- 04 September 2015 г., Reading, United Kingdom.
- NATO seminar: Building Resiliency and Decreasing Vulnerability through Climate

Change Adaptation, 01- 03 March 2015 г., Sofia, Bulgaria.

- Seventh ICTP Workshop on the Theory and Use of Regional Climate Models, 09-23 May 2014 г., Trieste, Italy.
- WMO Training Course on „Climate Analysis and Applications“, 10-19 October 2011 г., Turkey, Alanya.

Цитирания (без автоцитирания)

статия:

Spiridonov, V., Valcheva, R., “A new index for climate change evaluation. An example with the ALADIN and RegCM regional models for the Balkans and the Apennines”, *Idojaras*, Vol. 123, № 4, October – December, pp. 551–576, 2019, DOI:10.28974/idojaras.2019.4.9.

цитати: 3

Burić, Dragan and Doderović, Miroslav (2020) Projected temperature changes in Kolašin (Montenegro) up to 2100 according to EBU-POM and ALADIN regional climate models. *IDŐJÁRÁS / QUARTERLY JOURNAL OF THE HUNGARIAN METEOROLOGICAL SERVICE*, 124 (4). pp. 427-445. ISSN 0324-6329.

Driouech, F., ElRhaz, K., Moufouma-Okia, W. et al. Assessing Future Changes of Climate Extreme Events in the CORDEX-MENA Region Using Regional Climate Model ALADINClimate. *Earth Syst Environ* 4, 477–492 (2020) <https://doi.org/10.1007/s41748-020-00169-3>.

H Chervenkov, K Slavov: Assessment of agrometeorological indices over Southeast Europe in the context of climate change (1961–2018), *Quarterly Journal of the Hungarian Meteorological Service* Vol. 125, No. 2, April – June, 2021, pp. 255–269 DOI:10.28974/idojaras.2021.2.5.