

Списък на публикации, доклади, изобретения и други научно-приложни разработки.

Benderev, A., M. Marinov, V. Nikolov, P. Tsarev, D. Todorov. 2024. Hydrogeological prerequisites for exploratory monitoring and determination of subtypes in the catchment of surface water bodies type R9 Dobrudja sinking rivers. – Review of the Bulgarian Geological Society (in English).

Artinyan, E., P. Tsarev, K. Kroumova. 2021. Variations of the yearly runoff in Bulgaria up to the end of 21st century at the basis of three climatic scenarios. – Bulgarian Journal of Meteorology and Hydrology, 25(1), ISSN 2535-0595 (in English).

Nedkov, N., P. Tsarev, E. Artinyan. 2020. Alternative maps of soil and vegetation parameters for hydrological modeling of rivers Vit and Osam in Bulgaria. – Bulgarian Journal of Meteorology and Hydrology, 24(1), ISSN 2535-0595 (in English).

Naldzhiyan, A., P. Tsarev, E. Artinyan. 2019. Experiments of optical determination of surface water velocity based on LSPIV method in Bulgarian rivers. – Bulgarian Journal of Meteorology and Hydrology, 23(1), ISSN 2535-0595 (in English).

Artinyan, E., B. Vincendon, K. Kroumova, N. Nedkov, P. Tsarev, S. Balabanova, G. Koshinchanov. 2016. Flood forecasting and alert system for Arda River basin. – Journal of Hydrology, 541, 457-470 (in English).

Доклади на конференции и презентации

Artinyan, E., P. Tsarev. 2025. Validation of the hydrological results of the coupled SURFEX-CTRIP model for Bulgaria. – II National Scientific Conference on Environment, March 2025 (presentation).

Artinyan, E., P. Tsarev. 2024. Optimization of SURFEX-CTRIP model parameters for simulating natural river runoff in Bulgaria. – International Conference: Science & Technics "75 Years Faculty of Hydraulic Engineering", November 2024 (presentation).

Artinyan, E., P. Tsarev. 2024. Софтуерни приложения за управление на системи за хидрологична прогноза. – Национална научна конференция по околна среда, 19-20.03.2024 г., София, НИМХ (poster) (in Bulgarian).

Tsarev, P. 2024. Оценка на валежите за хидроложки цели чрез използване на конвенционални, радарни и сателитни измервания – област Бургас, 05.09.2023 г. – Национална научна конференция по околна среда, March 2024 (presentation) (in Bulgarian).

Artinyan, E., P. Tsarev. 2022. Hydrological water balance model for modelling the natural river flow of rivers in Bulgaria. – International Jubilee Scientific Conference "80th Anniversary of UACEG", November 2022 (conference paper).

Paralska, K., P. Tsarev, R. Stefanova, G. Koshinchanov. 2022. Analysis of high wave during hydrological extreme event on 10-15 December 2021 with significant rainfall in Southern Bulgaria. – 22nd SGEM International Multidisciplinary Scientific GeoConference 2022, November 2022 (conference paper).

Koshinchanov, G., P. Tsarev. 2022. Comparison of simulated discharge over Ogosta river basin using ground, satellite and merged data as precipitation input for the purpose of flood forecasting. – XXIX Danube Conference, September 2021, published May 2022 (conference paper).

Tsarev, P., G. Koshinchanov. 2021. Combining ground data from rain gauges and satellite data for the purpose of analyses and forecasts of floods and flash floods. – Scientific Conference, September 2021 (conference paper).

Naldzhiyan, A., P. Tsarev. 2021. Remote measurement of the river flow surface velocity at high water with Large Scale Particle Image Velocimetry method. – Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM, August 2021 (conference paper).

Tsarev, P., E. Artinyan, C. David. 2021. Assessment of three hydrological routing models coupled to the SURFEX land surface model (ISBA scheme): an example of Varbitsa River basin in Bulgaria. – 21st International Multidisciplinary Scientific GeoConference SGEM 2021, ISBN 978-619-7603-24-8, August 2021 (conference paper).

Tsarev, P., E. Artinyan. 2021. Impact of alternative maps of soil and vegetation parameters on the hydrological modelling of upper part of Arda River basin in Bulgaria. – 21st International Multidisciplinary Scientific GeoConference SGEM 2021, ISBN 978-619-7603-24-8, August 2021 (conference paper).

Tsarev, P., E. Artinyan, A. Naldzhiyan. 2019. Improvements of the hydrological modelling, software applications and dam overflow computing in ArdaForecast project for Arda River basin. – Eighth Bulgarian-Austrian Seminar "Hydrological hazards and related problems", May 30-31, 2019 (conference paper).

Tsarev, P., E. Artinyan, A. Naldzhiyan. 2019. Усъвършенстване на хидроложкото моделиране, софтуерни приложения и изчисления при преливане на язовири за басейна на река Арда. – 8th Bulgarian-Austrian Seminar, Sofia, Bulgaria, May 2019 (presentation) (in Bulgarian).

Artinyan, E., N. Nedkov, P. Tsarev, A. Naldzhiyan. 2019. On the use of ISBA & SURFEX modelling platform applications in NIMH - Bulgaria. – SURFEX User Workshop, 18-19 March 2019 (presentation).

Artinyan, E., B. Vincendon, P. Tsarev, A. Naldzhiyan. 2018. Performance of SURFEX-TOP v8.1 hydrological model for a Bulgarian Mediterranean basin depending on the used soil

discretization type and patch number. – 11th HyMeX Workshop, 29 May - 2 June 2018, Lecce, Italy (poster).

Tsarev, P., E. Artinyan. 2017. Reservoirs cascade simulation add-on for riverflow forecasting of Arda and Tundzha rivers. – XXVII Conference of the Danubian countries on hydrological forecasting and hydrological bases of water management, September 2017 (conference paper).

Artinyan, E., E. Batchvarova, N. Nedkov, N. Shopova, P. Tsarev. 2017. Comparison of measured and modeled surface fluxes at two experimental sites in Bulgaria. – EGU General Assembly 2017, April 2017 (poster).

Nedkov, N., E. Artinyan, P. Tsarev. 2016. Parameterization of SURFEX-TOPMODEL river velocity based on instant discharge dependency. – EGU General Assembly 2016, held 17-22 April, 2016 in Vienna Austria, id. EPSC2016-17878 (poster).

Tsarev, P., B. Vincendon, E. Artinyan, G. Koshinchinov. 2015. Reservoirs cascade simulation add-on used with the SURFEX-TOP modelling platform: methods and results for a Bulgarian Mediterranean basin. – 9th HyMeX workshop, 21-25 September 2015, Mykonos, Greece (poster).

Artinyan, E., B. Vincendon, N. Nedkov, P. Tsarev, G. Koshinchinov. 2015. Parameterization of river speed within the SURFEX-TOP modelling platform: calibration and validation using a Bulgarian Mediterranean basin. – 9th HyMeX workshop, 21-25 September 2015, Mykonos, Greece (poster).

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