

Seznam publikací a výsledků oddělení za rok 2023

List of publications in 2023

Duque, J., **Loche, M.**, & Scaringi, G. (2023). Rate-dependency of residual shear strength of soils: implications for landslide evolution. *Géotechnique Letters*, 13(2),1-8.

<https://doi.org/10.1680/jgele.23.00004>

Klimeš, J.; Hussain, Y.; Mreyen, A.-S.; Cauchie, L.; Schlögel, R.; Piroton, V.; Petružálek, M.; **Blahůt, J.**; **René, M.**; Meletlidis, S.; Havenith, H.-B. (2023) New Insights into the Internal Structures and Geotechnical Rock Properties of the Giant San Andrés Landslide, El Hierro Island, Spain. *Remote Sens.*, 15, 1627. <https://doi.org/10.3390/rs15061627>

Mitrovic-Woodell, I., Tesei, T., Plan, L., Habler, G., **Baroň, I.**, Grasemann, B. (2023): Deformation of columnar calcite within flowstone speleothem. - *Journal of Structural Geology* 174 (2023), 16 pp.104924. <https://doi.org/10.1016/j.jsg.2023.104924>

Racek O., **Balek J.**, **Loche M.**, Vích D., **Blahůt J.** (2023) Rock Surface Strain In Situ Monitoring Affected by Temperature Changes at the Požáry Field Lab (Czechia). *Sensors* 23(4): 2237. <https://doi.org/10.3390/s23042237>

Raška, P., Riezner, J., Bíl, M., **Klimeš J.** (2023) Long-term landslide impacts and adaptive responses in rural communities: Using historical cases to validate the cumulative causation approach. *International Journal of Disaster Risk Reduction*, 93, <https://doi.org/10.1016/j.ijdr.2023.103748>

Rowberry, M., Trčka, T., Mikluš, V., 2023. Portable muon detectors tested at the British Cave Science Centre. *Cave and Karst Science*, v. 50 (3), pp113-118.

Šilhán K., Fabiánová A., **Klimeš, J.**, Tábořík, P., **Hartvich, F.**, **Blahůt, J.** (2024) The effect of tree growth disturbances inertia on dendrogeomorphic spatio-temporal analysis of landslides: A case study. *CATENA*, 235, <https://doi.org/10.1016/j.catena.2023.107678>

Šilhán, K., **Balek, J.**, **Hartvich, F.**, **Klimeš, J.**, **Blahůt, J.**, Hampel, F., 2023. Anatomical growth response of *Fagus sylvatica* L. to landslide movements. *Science of the Total Environment* 867, 161554. <http://dx.doi.org/10.1016/j.scitotenv.2023.161554>

Tong, Z. L., Guan, Q. T., Arabameri, A., **Loche, M.**, & Scaringi, G. (2023). Application of novel ensemble models to improve landslide susceptibility mapping reliability. *Bulletin of Engineering Geology and the Environment*, 82(8), 309. <https://doi.org/10.1007/s10064-023-03328-8>

Kapitoly v monografiích

Baroň, I., Melichar, R., Sokol, Ľ., **Rowberry, M.**, Plan, L., **Stemberk, J.**, 2024. 3D fault monitoring reveals rapidly alternating stress states in the eastern Alps. In: Goteti, R., Finkbeiner, T., Rajabi, M., Ziegler, M., Massiot, C. (eds.), *Characterisation, prediction, and modelling of the crustal present day in situ stresses*. Geological Society of London, Special Publication, v. 54 (1), <https://doi.org/10.1144/SP546-2023-32>