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SCIENTIFIC INTERESTS

The use of remote sensing on monitoring vegetation conditions in wetlands, forests, coastal landscapes. Wetland ecosystem research, applying time-series with optical images derived from various satellites under ESA and NASA missions. Assessment of environmental changes in space and time are made by combining field expeditions and remote sensing data.

PUBLICATIONS

Scientific articles in Clarivate Analytics Web of Science database (publications with citation rate):

1. **Šimanauskienė, R.**, Linkevičienė, R., Povilanskas, R., Satkūnas, J. Veteikis, D., Baubiniene, A.; Taminskas, J. (2022). Curonian Spit Coastal Dunes Landscape: Climate Driven Change Calls for the Management Optimization. *Land* 2022, 11, 877. <https://doi.org/10.3390/land11060877>
 2. Julius Taminskas, **Rasa Šimanauskienė**, Rita Linkevičienė, Jonas Volungevičius, Gintarė Slavinskienė, Ramūnas Povilanskas, Jonas Satkūnas (2020). Impact of Hydro-Climatic Changes on Coastal Dunes Landscape According to Normalized Difference Vegetation Index (The Case Study of Curonian Spit), *Water*, 12, 3234; doi:10.3390/w12113234
 3. **Rasa Šimanauskienė**, Rita Linkevičienė, Maciej Bartold, Katarzyna Dąbrowska-Zielińska, Gintarė Slavinskienė, Darius Veteikis, Julius Taminskas (2019). Peatland degradation: The relationship between raised bog hydrology and normalized difference vegetation index, *Ecohydrology*, 2019;e2159. <https://doi.org/10.1002/eco.2159>
 4. Gintarė Slavinskienė, Arūnas Jurevičius, Jonas Satkūnas, **Rasa Šimanauskienė** (2019). Landfill leachate quantity and attenuation distance of inorganic contaminants in the groundwater of different hydrogeological systems: a case study of Lithuania, *Baltica*, Volume 32, <https://doi.org/10.5200/baltica.2019>
 5. Johannes Edvardsson, Ieva Baužienė, Mariusz Lamentowicz, **Rasa Šimanauskienė**, Marija Tamkevičiūtė, Julius Taminskas, Rita Linkevičienė, Žana Skuratovič, Christophe Corona, Markus Stoffel (2019). A multi-proxy reconstruction of moisture dynamics in a peatland ecosystem: A case study from Čepkeliai, Lithuania, *Ecological Indicators* 106 (2019) 105484, <https://doi.org/10.1016/j.ecolind.2019.105484>
 6. Arvydas Urbis, Ramūnas Povilanskas, **Rasa Šimanauskienė**, Julius Taminskas (2019). Key Aesthetic Appeal Concepts of Coastal Dunes and Forests on the Example of the Curonian Spit (Lithuania), *Water*, 11, 1193; doi:10.3390/w11061193
 7. Taminskas, J. Linkevičienė, **R. Šimanauskienė**, R. Jukna, L. Kibirkštis, G. Tamkevičiūtė, M. (2018). Climate change and water table fluctuation: Implications for raised bog surface variability, *Geomorphology*, Volume: 304 Pages: 40-49,
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- DOI:10.1016/j.geomorph.2017.12.026
8. Johannes Edvardsson, Egidijus Rimkus, Christophe Corona, **Rasa Šimanauskienė**, Justas Kažys, Markus Stoffel (2015). Exploring the impact of regional climate and local hydrology on *Pinus sylvestris* L. growth variability – A comparison between pine populations growing on peat soils and mineral soils in Lithuania, *Plant and Soil* 389 (1-2)
 9. Edvardsson, J., **Šimanauskienė, R.**, Taminskas, J., Baužienė, I., Stoffel, M. (2015). Increased tree establishment in Lithuanian peat bogs - Insights from field and remotely sensed approaches, *Science of the Total Environment* 505, 113–120.
 10. Taminskas J., Pileckas M., **Šimanauskienė R.**, Linkevičienė R. (2012). Wetland classification and inventory in Lithuania. *Baltica*. Vol. 25, no. 1, p. 33–44.

PARTICIPATION IN PROJECTS

- 2019 – European Space Agency, University Course and Public Lectures on Earth
2020 Observations (UniEO) project;
- 2013– Lithuanian-Swiss cooperation programme: Climate change in peatlands:
2016 Holocene record, recent trends and related impacts on biodiversity and sequestered carbon (CLIMPEAT);

PARTICIPATION IN CONFERENCES

- 2022 (08.15 – 18) **Šimanauskienė R.**, Linkevičienė R., Kibirkištis G., Grigaitė O., Taminskas (2022). Assessment of raised bog ecohydrological features by remote sensing methods (case study of Čepkeliai, Lithuania). Proceedings of XXXI Nordic Hydrological Conference 2022, August 15–18, Tallinn, Estonia
- 2021 (05. 20-21) Baubinienė A., Šimanauskienė R. (2021). Morphological features and development of the islands of the lower Neris river (Baltic Sea basin) at the turn of the 20th - 21st centuries, 2nd International Conference on Water Management and its Surroundings – Theoretical and Practical Aspects, Online conference (Poland), May 20-21 2021
- 2020 (06. 01-05) Šimanauskienė R., Linkevičienė R., Taminskas J., Povilanskas R. 2020. Coastal dunes ecosystems change according to normalized difference vegetation index (the case study of Curonian Lagoon), *3rd Baltic Earth conference „Earth system science for the Baltic sea region“*. Online conference (Poland), 2-3 June 2020
- 2019 (05. 02-04) 3rd International Conference on Life and Environmental Sciences 2-4 of May 2019 Kaunas, Lithuania
- 2018 (06. 11-15) 2nd Baltic Earth Conference, The Baltic Sea in Transition Helsingør, Denmark
Poster presentation: Hydroclimatic dynamics and peatland land cover response over last centuries – A multi-proxy reconstruction from hydro-meteorological data, peat stratigraphy, testate amoebas, tree rings and remotely sense approaches, Pages 177–178.