

# Julius Taminskas

## CONTACT INFORMATION

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<https://orcid.org/0000-0002-1009-8131>  
<https://www.researchgate.net/profile/Julius-Taminskas>

## EDUCATION AND ACADEMIC DEGREE

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- 1988 – 1993 Field of Natural sciences, Physical geography direction (N 006), doctoral degree (Institute of Geography, Vilnius University and Vilnius Pedagogic University). Dissertation thesis: "Hydrological regime of the karst region Northern Lithuania and its influence on karst development", supervisor – prof. hab. dr. V. Juodkazis. Field of research: hydrology, hydro-ecology wetlands, and their change.
- 1981 – 1985 MSC Vilnius University – geographer. Thesis of diploma: "Hydrochemistry of karst lakes (North Lithuania)". The thesis was carried out at the Department of Hydrology and Climatology of Vilnius University and the laboratory of Limnology and Telmatology of the Institute of Zoology and Parasitology.

## PROFESSIONAL EXPERIENCE

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- From 2018 **Chief researcher**  
Laboratory of Climate and Water Research, Nature Research Centre
- 2010 – 2017 **Senior researcher**  
Laboratory of Climate and Water Research, Nature Research Centre
- 2006 – 2016 **Assistant professor**  
Department of Geography, Lithuanian University of Educational Sciences
- 2003 – 2009 **Senior researcher**  
Laboratory of Climate and Water Research, Institute of Geology and Geography
- 2001 – 2003 **Senior researcher**  
Department of Physical Geography, Institute of Geography
- 1999 – 2005 **Lecturer**  
Department of Geography, Lithuanian University of Educational Sciences
- 1997 – 2000 **Senior researcher**  
Department of Limnology and Telmatology, Institute of Geography
- 1994 – 1996 **Senior researcher**  
Department of Regional Geography, Institute of Geography
- 1988 – 1989 **Assistant**  
Department of Hydrology and Climatology, Vilnius University
- 1984 – 1994 **Technician**  
Laboratory of Limnology and Telmatology, Institute of Zoology and Parasitology

## RESEARCH INTERESTS

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Research area: hydrology, karst hydrology, wetland hydrology, hydrometeorology, ecohydrology,

biodiversity conservation and landscape sustainability. Impact of climate change on recreational resources. Remote and *in situ* survey methods for research studies.

## PUBLICATIONS

*Scientific articles published in journals (books), indexed in "Clarivate Analytics Web of Science" database (with citation index), 5 years:*

1. Tamkevičiūtė, M., Edvardsson, J., Pukienė, R., **Taminskas, J.**, Stoffel, M., Corona, C., Kibirkštis, G. 2018. Scots pine (*Pinus sylvestris* L.) based reconstruction of 130 years of water table fluctuations in a peatland and its relevance for moisture variability assessments. *Journal of Hydrology*. Vol 558, p. 509-519.
2. **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*. Vol. 304, p. 40-49.
3. **Taminskas, J.**, Edvardsson, J., Linkevičienė, R., Stoffel, M., Corona, C., Tamkevičiūtė, M. 2019. Combining multiple proxies to investigate water table fluctuations in wetlands: A case study from the Rėkyva wetland complex, Lithuania. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Vol.514, p. 453-463.
4. Edvardsson, J., Baužienė, I., Lamentowicz, M., Šimanauskienė, R., Tamkevičiūtė, M., **Taminskas, J.**, Linkevičienė, R., Skuratovič, Ž., Corona, C., Stoffel, M. 2019. A multi-proxy reconstruction of moisture dynamics in a peatland ecosystem: A case study from Cepkeliai, Lithuania. *Ecological Indicators*. 106: art. no. UNSP 105484.
5. Urbis, A., Povilanskas, R., Šimanauskienė, R., **Taminskas, J.** 2019. Key aesthetic appeal concepts of coastal dunes and forests on the example of the Curonian Spit (Lithuania). *Water*. 11 (6): art.no. 1193.
6. Šimanauskienė, R., Linkevičienė, R., Bartold, M., Dabrowska-Zielinska, K., Slavinskienė, G., Veteikis, D., **Taminskas, J.** 2019. Peatland degradation: The relationship between raised bog hydrology and normalized difference vegetation index. *Ecohydrology*. 12 (8): art. no. UNSP e2159.
7. Tagliapietra, D., Povilanskas, R., Razinkovas-Baziukas, A., **Taminskas, J.** 2020. Emerald growth: A new framework concept for managing ecological quality and ecosystem services of transitional waters. *Water*, 12 (3): art. no. 894.
8. **Taminskas, J.**, Šimanauskienė, R., Linkevičienė, R., Volungevičius, J., Slavinskienė, G., Povilanskas, R., Satkūnas, J. 2020. Impact of hydro-climatic changes on coastal dunes landscape according to normalized difference vegetation index (The case study of Curonian Spit). *Water*, 12 (11): art. no. 3234.
9. Satkūnas, J., Minkevičius, V., Guobytė, R., Baubiniienė, A., Linkevičienė, R., **Taminskas, J.** 2020. Morphometric indicators of insular and marginal morainic uplands (based on LiDAR data) of the Last and pre-Last Glaciations, case of Lithuania. *Baltica*, 33 (2), 166–176. <https://doi.org/10.5200/baltica.2020.2.4>
10. Jurkus, E., **Taminskas, J.**, Povilanskas, R., Kontautienė, V., Baltranaitė, E., Dailidė, R., Urbis, A. 2021. Delivering Tourism Sustainability and Competitiveness in Seaside and Marine Resorts with GIS. *J. Mar. Sci. Eng.*, 9, 312.
11. Urbis, A., Povilanskas, R., Jurkus, E., **Taminskas, J.**, Urbis, D. 2021. GIS-Based Aesthetic Appraisal of Short-Range Viewsheds of Coastal Dune and Forest Landscapes. *Forests* 2021, 12(11), 1534; <https://doi.org/10.3390/f12111534>.
12. Taminskas, J., Šimanauskienė, R., Linkevičienė, R., Povilanskas, R., Satkūnas, J., Veteikis, D., Baubiniienė A. and 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>.

13. Jurkus, E., Povilanskas, R., Razinkovas-Baziukas, A. and **Taminskas, J.** 2022. Current Trends and Issues in Applications of Remote Sensing in Coastal and Marine Conservation. *Earth*, 2022, 3, 433–447. <https://doi.org/10.3390/earth3010026>.
14. Jurkus, E., Povilanskas, R., **Taminskas, J.** 2022. **Title:** Current Trends and Issues in Research on Biodiversity Conservation and Tourism Sustainability. *Sustainability* 2022, 14(6), 3342; <https://doi.org/10.3390/su14063342>.

**Scientific articles published in conference proceedings, indexed in "Clarivate Analytics Web of Science" database:**

1. **Taminskas J.**, Paskauskas R., Zvigas A., Satkunas J. 2005. Karst and Ecosystems. *Geology and Ecosystems*, 61-79. ISBN: 0-387-29292-6.
2. Satkunas J., **Taminskas J.**, Oberman N. 2006. The influence of climate change on geology and ecosystem interaction. *Geology and Ecosystems*, p.2 65-280. ISBN: 0-387-29292-6.
3. Linkevičienė R., **Taminskas J.**, Šimanauskienė R. 2006. Anthropogenic influence towards the eutrophication of Žuvintas lake, *Limnological Review* 6, 157–164, Sosnowiec, ISSN 1642–5952.
4. Satkūnas J., **Taminskas J.** 2006. Geoindicators: Tools for understanding environmental change and communicating geoscience. *Sustainable development of geo-resources and geo-environment*, 27-34. ISBN 974-226-387-6.
5. Šimanauskienė R., **Taminskas J.**, Linkevičienė R., 2006. The influence of runoff on alluvial meadow Habitats. *Water and landscape: The landscape Ecology of freshwater ecosystems*, 327-330.

**Reviewed scientific articles, published in Lithuania:**

1. **Taminskas J.**, Linkevičienė R., Žikulinas J. 2005. Anthropogenic impact on Lake Žuvintas: reconstruction of the hydrographic network (in Lithuanian). *Geografijos metraštis*, No. 38, 28-36.
2. Povilanskas, R., Satkūnas, J., **Taminskas, J.** 2006. Results of cartometric investigations of dune morphodynamics on the Curonian Spit. *Geologija*, No 53, 22-27.
3. **Taminskas J.**, Švedas K., Švedienė I. 2006. Variation of seasonal frost depth in Lithuania (in Lithuanian). *Annales Geographicaes*. No. 39 (I), 15-24.
4. **Taminskas J.**, Linkevičienė R., Šimanauskienė R. 2006. Phosphorus sources and runoff in the Žuvinto basin. (in Lithuanian). *Annales Geographicaes*. No. 39 (I), 25-33.
5. Mažeika J., **Taminskas J.**, Paškauskas R., Bodoyan A., Baghdassaryan H., Tozalakyan P., Davtyan V., Grillot J-C., Travi Y. (2006). Ecohydrological evolution in the catchment of Lake Drūkšiai, Lithuania, under anthropogenic pressure *EKOLOGIJA*. No. 4, 40-50.
6. **Taminskas J.**, Linkevičienė R., Šimanauskienė R. (2007). Loading and retention of phosphorus in riverine systems. *EKOLOGIJA*. Vol. 53, No. 2, 30-36.
7. Stonevičius E., **Taminskas J.** (2007). Lake Žuvintas water quality analysis employing PCLake model. *EKOLOGIJA*. Vol. 53, No. 2, 51-55.

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

- 2011– 2022 **Research manager.** Project of Lithuanian Geological Survey "The research of gypsum chemical denudation in Northern Lithuania karst region".
- 2010 – 2021 **Research manager.** Project of "Rėkyva" JSC "Hydrometeorological studies of the Rėkyva peatland and analysis of its impact on the environment".

- 2018 – 2019 **Research manager.** Project of “GB projektai” JSC “Climate change and anthropogenic impact on the Nemunas floods below the Neris estuary and the flooded areas of this section (from Nevėžis to the Klevinė tributary), according to runoff measurements and the HEC-RAS model”
- 2017–2018 **Head of the researcher team.** Project with JSC "Civita" "Preparation of methodology for assessing the damage caused by hydroelectric power plants to water bodies".
- 2016 – 2017 **Research manager.** Project of Public institution "Tatulos programa" “Investigation of groundwater and surface water systems in the karst region of Northern Lithuania”.
- 2013 – 2015 **Head of the researcher team.** Lithuanian – Swiss Cooperation Programme of Nature Research Centre (Lithuania), University of Bern Institute for Geological Sciences (Swiss), Vilnius university project "Climate change in peatlands: Holocene record, recent trends and related impacts on biodiversity and sequestered carbon".

## **INTERNSHIP AND TRAINING**

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- 2003 Effects of climate change and anthropogenic impacts on lacustrine water systems. Maison des Sciences de l'Eau, Université Montpellier II (Montpeljė, France).
- 1994 Assessment of the anthropogenic load of river basins. Water Quality Institute Department of Aquatic Ecology (Hørsholm, Denmark).

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### ***International scientific conferences:***

1. Edvardsson, J., Leuschner, H. H., Helama, S., Corona, Ch., J. Mažeika, J., **Taminskas, J.**, Tamkevičiūtė, M., Stoffel, M. 2014. Subfossil bog pines as indicators of long-term palaeohydrology and climate change. World Dendro 2014. 13-17 January Melbourne, Australia.
2. Pukienė, R., Tamkevičiūtė, M., **Taminskas, J.**, Šmatas, V. 2014. Factors affecting daily variations of Scots pine stem size at the end of vegetation season. EuroDendro 2014. 8-12 September Lugo, Spain.
3. Tamkevičiūtė, M., Pukienė, R., **Taminskas, J.**, Edvardsson, J. 2016. Scots pine (*Pinus sylvestris* L.) as a proxy for hydrological variability in peatlands: case study of Čepkeliai raised bog, south Lithuania. BaltDendro. 2016. 22-25 September Klives Babites, Latvija.
4. Linkevičienė, R., Šimanauskienė, R., **Taminskas, J.**, Edvardsson, J., Corona, Ch., Tamkevičiūtė, M., Stoffel, M. 2017. Reconstruction of long-term water table fluctuations in Rėkyva wetland complex, Lithuania. Int. Conference on Conservation and Management of Priority Wetland Habitats. 11-12 July Riga, Latvia.
5. Linkevičienė, R., Šimanauskienė, R., **Taminskas, J.**, Kibirkštis, G. 2019. Relations Between Hydrological Conditions and Raised Bog Surface Fluctuations: Case Study of Čepkeliai Peatland, Lithuania. 3rd International Conference *Smart Bio*. 2-4 May Kaunas, Lithuania.
6. 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). Earth system changes and Baltic Sea coasts: 3rd Baltic Earth conference. 1-5 June Jastarnia, Poland.
7. Linkevičienė, R., Šimanauskienė R., Kibirkštis, G., Grigaitė, O., **Taminskas, J.** 2022. Hydrological diversity of raised bog, case study of Čepkeliai (Lithuania). 31st Nordic Hydrological Conference *Hydrology and Water-related Ecosystems*. 15-18 August. Tallinn, Estonia.
8. Povilanskas, R., Jurkus, E., Razinkovas, A., **Taminskas, J.**, Urbis, A. 2022. Trends and Perspectives of Remote Sensing Applications in Marine and Coastal Conservation. 16<sup>th</sup> International conference Littoral 22. 12-16 September. Costa da Caparica, Portugal.

## **PARTICIPATION IN THE STUDY PROCESS**

### ***Supervision of PhD students:***

Field of Natural sciences (N000), Physical geography direction (N 006)

Aldona "Origin heterogeneity and dynamics of Lithuanian fluvial islands" 2010-11-01 –  
Baubinienė 2014-10-30

Field of Natural sciences (N000), Ecology and environmental studies direction (N012) 2012-10-01 –

Marija "Impacts of hydrometeorological conditions in raised bogs on radial stem 2016-09-30  
Tamkevičiūtė dynamics in scots pine (*Pinus sylvestris* L.)"

### ***Scientific consultant:***

Field of Natural sciences (N000), Ecology and environmental studies direction (N012)

Gintautas "The role of wildfires in raised bogs ecosystems changes" 2019-01-02 –  
Kibirkštis 2022-12-31

Field of Natural sciences (N000), Physical geography direction (N 006)

Egidijus "Optimization of the use of tourism natural resources in Western Lithuania 2020-10-01 –  
Jurkus by applying the geographical information systems (GIS) " 2024-09-30

## **OTHERS**

1. Baubinas R., **Taminskas J.** 1998. Military use of natural resources in Lithuania during the Soviet period: ecological consequences, P. 256. Monograph.
2. **Taminskas, J.** et. al. 2000. Karst region of Northern Lithuania. Geographical aspects of nature management, P. 284. Monograph.