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Programme & Abstracts



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MOSS SURVEY POSTERS

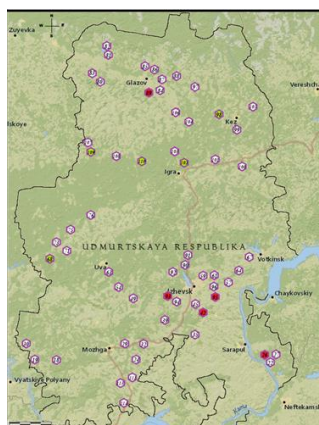
MOSS MONITORING IN THE STUDY OF THE ACCUMULATION OF TRACE ELEMENTS IN THE UDMURT REPUBLIC, RUSSIA

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The results of atmospheric deposition of trace elements in the moss survey in the summer of 2016 and 2017 in the Republic of Udmurtia, Russia, are reported. Coordinates of the sampling sites were very close to those used in the first moss survey in Udmurtia carried out in 2005-2006 (Pankratova et al., 2007, 2008). Conducted research supplements the information on the moss surveys in Udmurtia in 2005, 2006 and 2016, 2017 (Pankratova et al, 2007, Bukharina, etc., 2017, 2018). A total of 39 elements were determined by neutron-activation analysis and atomic absorption spectrometry (Pb, Cd, and Cu). Comparative analysis of distribution maps of the concentration of chemical elements in the biomass of mosses *Pleurozium schreberi* (Brid.) Mitt. and *Hylocomium splendens* (Hedw.) Bruch et al. in the territory of the Udmurt Republic revealed a high, relatively background, the content of chemical elements such as Mg, W, Mo, Cr at points 89, 42, 93, 95, 26; low content of chemical elements is noted at points 109, 110, 68, 98.



Moss monitoring network in Udmurtia, Wester Urals, in 2016-2017

References

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- I.L. Bukharina, A.N. Zhuravleva, N.A. Volkov, N.A. Vasileva, M.S Shvetsova, M.V. Frontasyeva Moss monitoring of trace elements in the Republic of Udmurtia, Russia // ICP Vegetation 30th Task Force Meeting : 14th-17th February 2017, Poznan, Poland : Programme & Abstracts / ICP Vegetation Programme Coordination Centre, Centre for Ecology & Hydrology. Poznan, 2017. - P. 58.
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