

**CREATING A RESOURCE MAP OF *LEDUM PALUSTRE* (ERICACEAE)**

**BASED ON GIS TECHNOLOGY**

© *D. G. Grummo*,\* *O. V. Sozinov*<sup>1,\*\*,\*\*\*</sup>

\*Kuprevich Institute of experimental botany of

Belarus National Academy of Sciences, Minsk, Republic of Belarus

\*\*Komarov Botanical Institute of the Russian Academy of Science, St. Petersburg, Russia

\*\*\*Yanka Kupala State University of Grodno, Republic of Belarus

<sup>1</sup>E-mail: ledum@list.ru

REFERENCES

1. Grummo D. G., Iliuchik M. A., Zelenkevich N. A., Vozniachuk N. L., Zhilinskii D. G. 2012. Ecological mapping of the natural environment. *Nauka i innovatsii*. 7: 62–68. (In Russian)
2. Grummo D. G. 2014. Methodological approaches to the creation of large-scale vegetation maps using remote sensing data and information technologies. In: *Botanika (issledovaniya): sb. nauchnykh trudov*. Minsk. Vol. 43. P. 48–74. (In Russian)
3. Yurkevich I. D., Yaroshevich E. P. 1974. *Biologicheskaya produktivnost tipov I assotsiatsiy sosnovykh lesov* [Biological productivity and association types of pine forests]. Minsk. 294 p. (In Russian)
4. Budantsev A. L. 2005. Assessment of the current state of the most important resources of medicinal and food plants of flora Russia. In: *Fundamentalnye osnovy upravleniya biologicheskimi resursami*. Moscow. P. 87–92. (In Russian)
5. Pavlov D. S., Striganova B. R. 2005. Biological resources of Russia and the main directions of fundamental research. In: *Fundamentalnye osnovy upravleniya biologicheskimi resursami: Sbornik nauchnykh statey*. Moscow. P. 4–20. (In Russian)
6. Rachkovskaya E. I., Temirbekov S. S., Sadvokasov R. E. 2000. The use of remote sensing methods to assess the degree of anthropogenic transformation of pastures. In: *Geobotanicheskoe kartografirovaniye*. St Peterburg. P. 16–25. (In Russian)
7. Malakhov D. V., Islamgulova A. F. 2014. Parametric image interpretation pastures: experience of remote sensing data for low and medium resolution. — *Optika atmosfery i okeana*. 27 (7): 587–592. (In Russian)
8. Krylova I. L., Prokosheva L. I. 1995. *Bagulnik bolotnyiy. Ledum palustre*. In: *Biologicheskaya flora Moskovskoy oblasti* [Biological flora of the Moscow region]. Moscow. Vol. 10. P. 174–186. (In Russian)
9. *Opredelitel vysshikh rasteniy Belarusi* [Determinant of higher plants in Belarus]. 1999. Minsk. 471 p. (In Russian)
10. Sushko G. G., Shkatulo V. V. 2013. Insects in the consortium wild berries and other Ericales raised bogs in the north of Belarus. — *Vestnik Vitebskogo derzhavnogo universiteta*. 3: 50–61. (In Russian)
11. *Gosudarstvennaya farmakopeya Respubliki Belarusi*. T. 2: *Kontrol kachestva vspomogatelnykh veshchestv i lekarstvennogo rastitelnogo syriya* [State Pharmacy of Republic of Belarus. Vol. 2: Quality control of auxiliary substances and medicinal plants]. 2009. Molodechno. 472 p. (In Russian)

12. Yurkevich I. D., Golod D. S., Aderikho V. S. Rastitelnost Belorussii, eyo kartografirovaniye, okhrana i ispolzovaniye [Vegetation of Belarus, mapping, protection and use]. 1979. Minsk. 248 p. (In Russian)
13. Flora i rastitelnost landshaftnogo zakaznika «Elnya» [Flora and vegetation of the landscape reserve «Yelnya»]. 2010. Minsk. 200 p. (In Russian)
14. Budantsev A. L., Kharitonova N. P. 1999. Resursovedeniye lekarstvennykh rasteniy: Metodicheskoye posobie k proizvodstvennoy praktike dlya studentov farmatsevticheskogo fakulteta [Economy botany of medicinal plants: a textbook for industrial practice for students of Faculty of Pharmacy]. St Petersburg. 87 p. (In Russian)
15. Sirin A. A., Maslov A. A., Valyaeva N. A., Tsyganova O. P., Glukhova T. V. 2014. Mapping of peatland Moscow region according to high resolution space imagery. — *Lesovedeniye*. 5: 65—71. (In Russian)
16. Torfyanoy fond Belorusskoy SSR: kadastrovyiy spravochnik: po sostoyaniyu razvedannosti na 1 yanvarya 1978 g. [Peat Byelorussian SSR: cadastral reference: As of exploration on January 1, 1978]. Upravleniye gosudarstvennogo torfyanogo fonda «Gostoffond» pri Gosplane BSSR. Minsk. 1979 (po kazhdoy iz oblastey). (In Russian)
17. Cherepanov A. S., Druzhinina E. G. 2009. Spectral properties of plants and vegetation indices. — *Geomatika*. 3: 28—32. (In Russian)
18. Walker D. A., Epstein H. E., Jia G. J., Copass C., Edwards E. J., Gould W. A., Hollingsworth J., Knudson J., Maier H., Moody A., Reynolds M. K. 2003. Phytomass, LAI and NDVI in northern Alaska: relationships to summer warmth, soil pH, plant functional types and extrapolation to the circumpolar Arctic. — *J. Geophys. Res. Atmos.* 108: 1—22.
19. Saevich K. F. 1990. Ratsionalnoye ispolzovaniye lesnykh resursov [Rational use of forest resources]. Minsk. 232 p. (In Russian)
20. Sozinov O. V., Kuzmicheva N. A. 2003. Coenopopulations of *Ledum palustre* L. and their plant material characteristics under conditions of Srednenemanskaja lowlands (Republic of Belarus). — *Rastitelnye resursy*. 39 (3): 55—62. (In Russian)