

Acclimation of *Juglans mandshurica* Maxim. and *Phellodendron amurense* Rupr. in the Middle Volga region

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. This research is the first attempt to analyze the results of acclimation of *J. mandshurica* and *P. amurense* in coniferous-deciduous forests under the conditions of the temperate continental climate of the Middle Volga Region. The study has been performed in the Volga-Kama Nature Reserve (Republic of Tatarstan, Russia) and demonstrated that *J. mandshurica* is a successfully acclimated species. This species naturalized in the forests of the Reserve, being distinguished by a rapid biomass production, high germination capacity of seeds and high number of pre-generative specimens. *P. amurense* can be characterized by the opposite features.

<http://dx.doi.org/10.1088/1755-1315/107/1/012094>

References

- [1] Vasil'ev N P and Vasin E A Biological Diversity. Introduction of Plants. Proc. III Int. Sci. Conf 179-180
- [2] Reif O Yu 2013 The State of Forests and Urgent Problems of Forest Management. Proc. All-Russ. Conf. with Int. Participation (Khabarovsk: Izd. FBU Dal'NIILKh) 402-405
- [3] Cheng Z, Yao G, Guo R, Huang X and Song S 2017 Bioorganic & Medicinal Chemistry Letters 27 601
- [4] Ivanov V B 2005 Trudy VKGZ 6 375
- [5] Gurskii A V 1957 Main Results of Introduction of Tree Plants in the USSR (Moscow, Leningrad: Izd. Akad. Nauk SSR) 304
- [6] Abaimov V F 2009 Dendrology (Moscow) 280
- [7] Deryuga E S and Murzov A M 1977 Trudy VKGZ 3 79
- [8] Bakin O V, Rogova T V and Sitnikov A P 2000 Vascular Plants of Tatarstan (Kazan: Izd. Kazan. Univ.) 496
- [9] Bakin O V 2001 Raifa-Sviyazhsk (Kazan) 66-70
- [10] Shuyatov S G 2000 Methods of Dendrochronology. Part I: Basics of Dendrochronology. Sampling and Obtaining Data from Tree Rings (Krasnoyarsk: KrasGU) 80
- [11] Fardeeva M B, Tishin D V and Safiulina N I 2016 VI Int. Sci. Conf. Biological Diversity. Introduction of Plants (St. Petersburg) 380-383
- [12] Tishin D V and Fardeeva M B 2017 Proc. Int. Sci. Conf. Role of Botanical Gardens and Arboreta in Preserving, Studying, and Stable Use of the Diversity of Plant Community (Minsk) 139-141