

**Balázs B., Horváth F., Mázsza K. és Bölöni J.
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Abstract

Forest reserve as a model area for future climate forest restoration - a case study

We adapted and parameterised the CO2FIX carbon sequestration model for near-natural, unevenaged, mixed forests. For this adaptation we made the retrospective case study of the Várhegy Forest Reserve (Bükk mts, North Hungary), which is dominated by Pannonian oak woods (91G0, 91H0, 91M0). Through forest inventory data (from 1880 to 2006) and a detailed survey in 2005, we followed the history and the carbon sequestration of the Várhegy forest with the CO2FIX model. We ran four scenarios to show the significance of unexpected events in creating near-natural (climate) forests and estimating their carbon sequestration.

[forest management](#)

[forest history](#)

[climate: climate change](#)

[methodology: modelling](#)

Notes

91M0, 91G0, 91H0, modelling climate change, land use change, reforestation, reclamation of former agricultural land, creating new landscapes, environmental policy, climate forests, carbon sequestration, modelling

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Strict forest reserves: [Vár-hegy Forest Reserve](#) Katalógusba vette: Gulyás Györgyi

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