Frost hardness of tree species is independent of phenology and macroclimatic niche

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*J. Biosci.* 40(1), March 2015, 147–157, © Indian Academy of Sciences

Supplementary material

**Supplementary figure 1.** Distribution map of *Betula pendula*. Green = distribution range. The region limited in magenta colours shows minimum temperatures of the coldest month that were lower than the $LT_{50}$ value of closed buds measured in this study ($-32.3^\circ$C). The region limited in blue colour shows the lowest 1%-percentile of the minimum temperature of the coldest month ($-50.8^\circ$C).
**Supplementary figure 2.** Distribution map of *Fagus sylvatica*. Green = distribution range. The region limited in magenta colours shows minimum temperatures of the coldest month that were lower than the $LT_{50}$ value of closed buds measured in this study ($-30.4^\circ C$). The region limited in blue colour shows the lowest 1%-percentile of the minimum temperature of the coldest month ($-10.1^\circ C$).