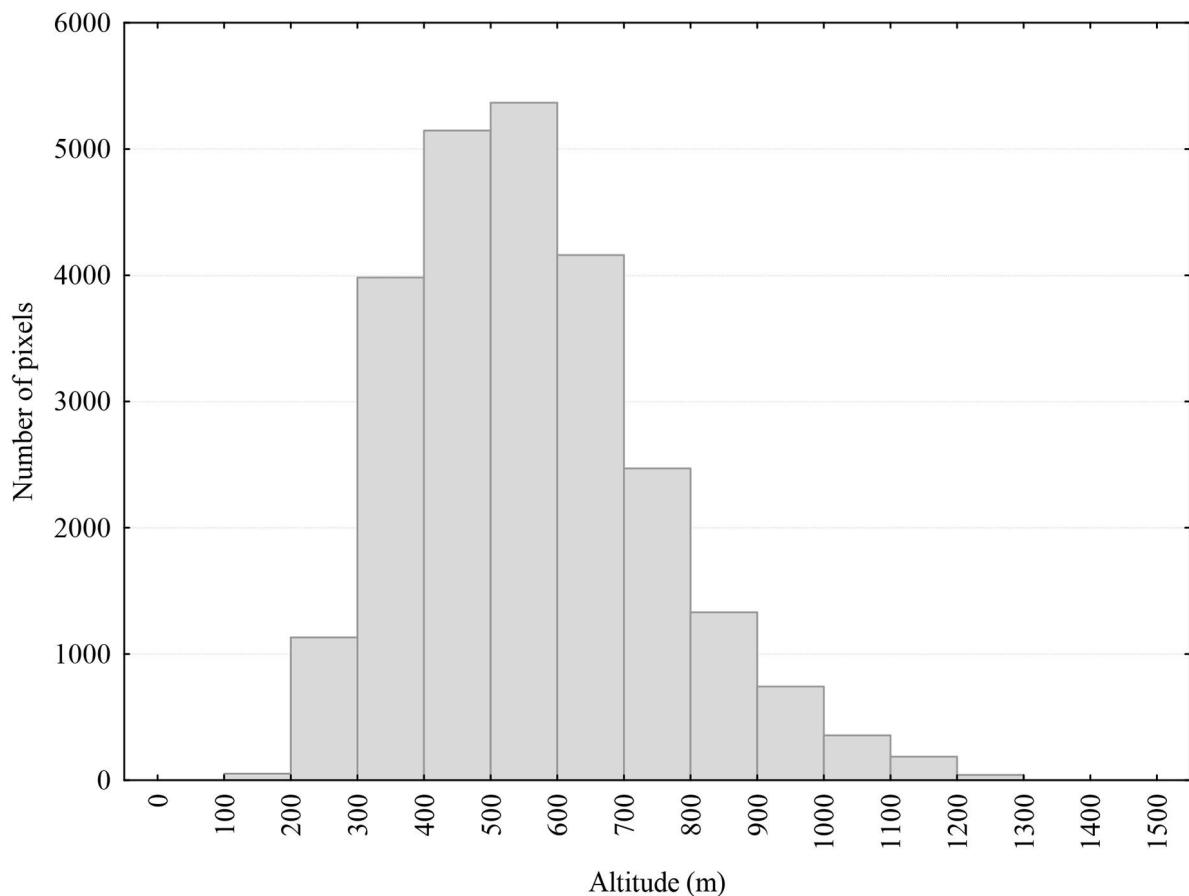


Supplementary material

Fig. S1 - The altitudinal distribution of analysed beech stands.



Tab. S1 - Description of MODIS dataset for analysis and overview of interpolation parameters.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<i>n</i>	45	35	44	39	59	46	47	43	54	51	81	77	49	31	57	45
\bar{x}	14.6	16.7	22.9	14.0	31.6	15.7	20.5	14.5	27.2	20.9	42	28.9	12.7	10.0	27.5	12.8
s_x	3.5	3.3	3.8	4.3	6.7	4.8	4.0	4.1	5.8	4.1	5.8	6.1	3.9	3.6	5.1	3.7
RMS	0.035	0.036	0.040	0.035	0.037	0.032	0.038	0.032	0.051	0.029	0.039	0.041	0.037	0.043	0.037	0.034
s_{RMS}	0.006	0.011	0.012	0.009	0.006	0.008	0.009	0.007	0.016	0.007	0.007	0.006	0.006	0.012	0.009	0.007

n – number of images used for analyses; \bar{x} – mean number of missing pixels; s_x – standard deviation of x; RMS – average RMS of interpolated sigmoidal logistic curves (from all pixels) [1]; s_{RMS} - standard deviation of RMS

Fig. S2 - Leaf unfolding and temperature deviation from long-term average. y-left axis: Deviation (in days) of leaf unfolding onset from GSD₂₀₀₁₋₂₀₁₅ average; y-right axis: Deviation (in °C) of February-April mean air temperature from normal 1961-1990 in Slovakia (2001-2015).

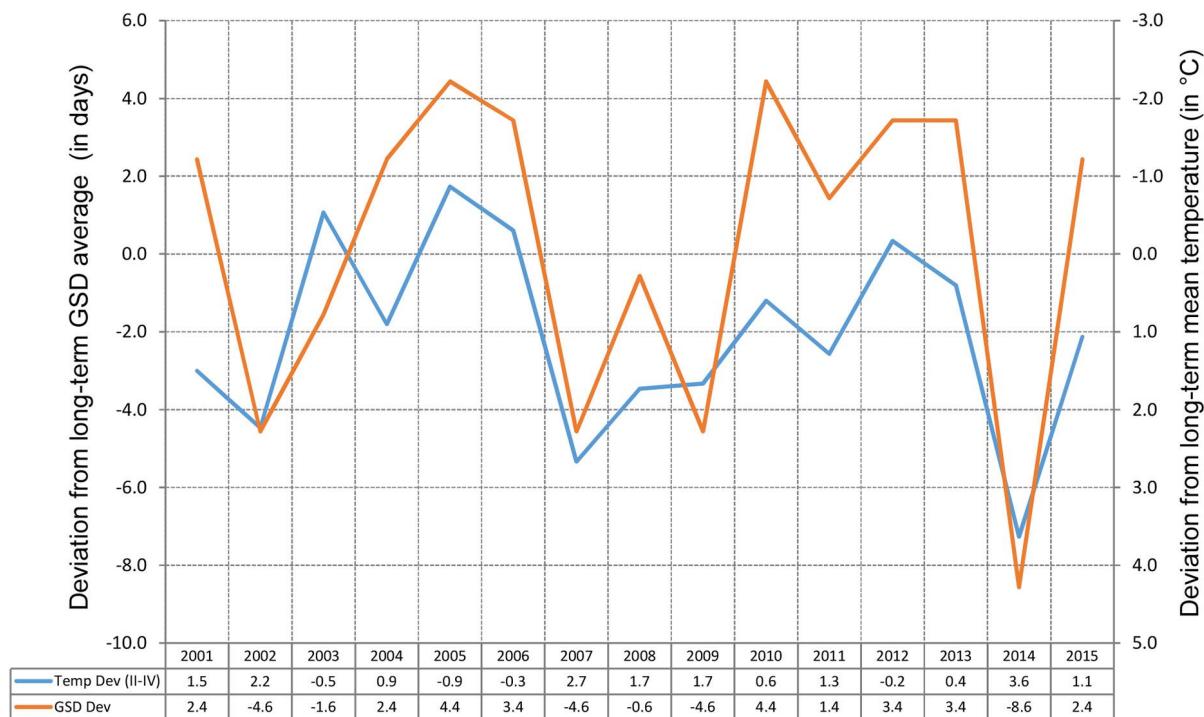


Fig. S3 - Leaf fall and temperature deviation from long-term average. y-left axis: Deviation (in days) of leaf fall onset from DSD₂₀₀₁₋₂₀₁₅ average; y-right axis: Deviation (in °C) of September monthly mean air temperature from normal 1961-1990 in Slovakia (2001-2015).

