

Supplementary Material

Tab. SM1 - List of candidate models.

Model	Formula	Asymptote	cw_0	Number of parameters to estimate
1	$a / \left(1 + b e^{-c du} \right)$	a	$a / (1 + b)$	3
2	$cw_0 + a \left(1 - e^{-b du} \right)^c$	$cw_0 + a$	cw_0	4
3	$cw_0 + a \left(1 - e^{-b du^c} \right)$	$cw_0 + a$	cw_0	4
4	$cw_0 e^{-b e^{-c du}}$	cw_0	$cw_0 e^{-b}$	4
5	$cw_0 e^{-b du^{-c}}$	cw_0	cw_0	3
6	$cw_0 + \frac{a du^2}{b + c du + du^2}$	$cw_0 + a$	cw_0	4
7	$cw_0 + a / \left[1 + 1 / (b du^c) \right]$	$cw_0 + a$	cw_0	4
8	$a e^{-b / (du + c)}$	a	$a e^{-b/c}$	3
9	$a \left(1 - b e^{-c du} \right)^d$	a	$a(1 - b)^d$	4
10	$cw_0 + \frac{du}{a + b du}$	$cw_0 + \frac{1}{b}$	cw_0	3

du - diameter at breast height under cork, cw_0 - crown diameter value when tree total height is equal to 1.3 m. a, b, c, d are parameters to be estimated.