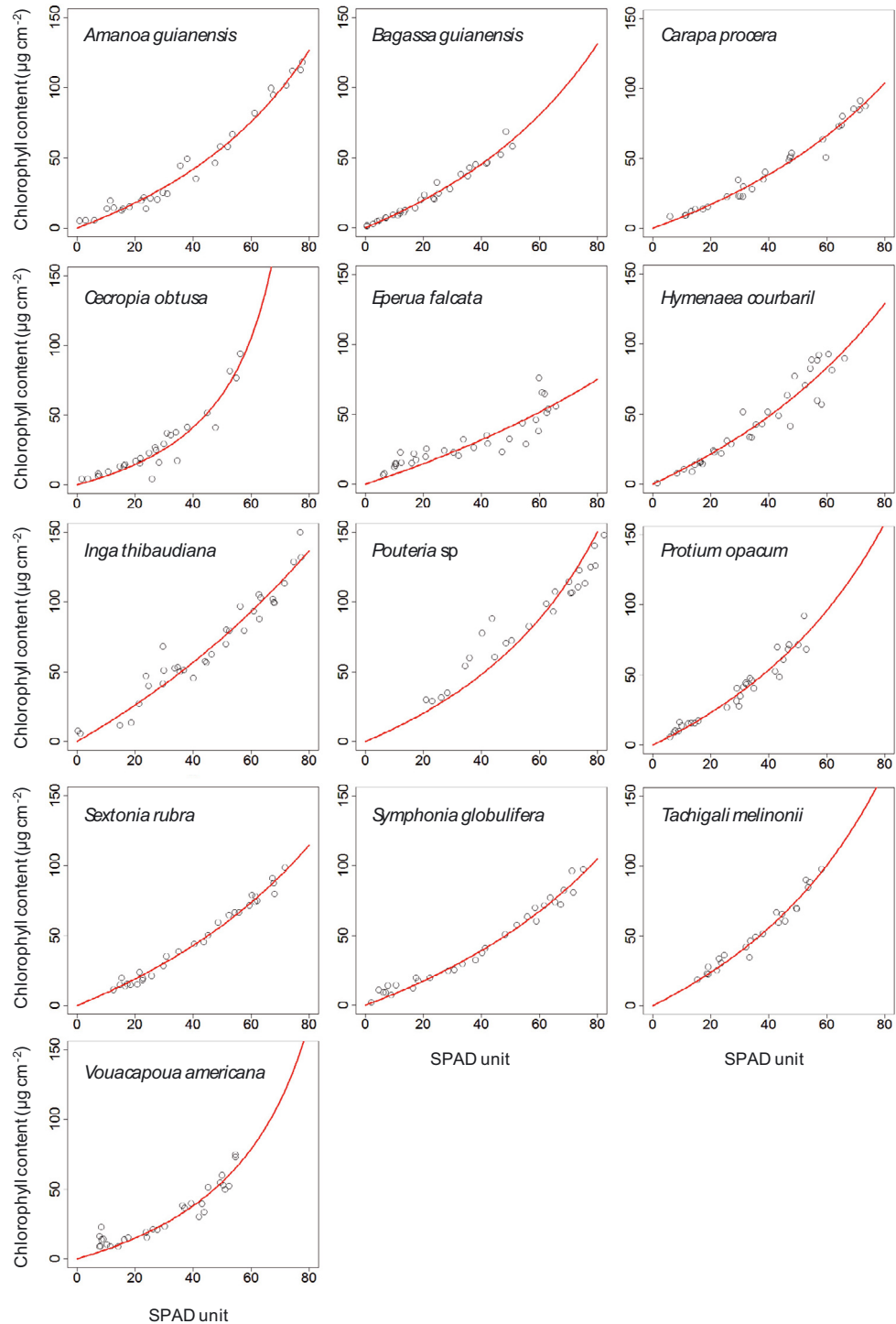


Online Material

Appendix 1. Ability of the newly-calibrated homographic model to predict data behind six published models. Species used to parameterize the published models are indicated, as well as the reference of publication. Model performance was assessed using both coefficient of determination (R^2) and Root Mean Square Error of Prediction (RMSEP).

Species	Reference of original data set	Published models		Homographic Model	
		R^2	RMSEP	R^2	RMSEP
<i>Betula papyrifera</i> Marsh.	Richardson et al. (2002)	0.942	2.67	0.934	5.20
<i>Betula pendula</i> Roth	Uddling et al. (2007)	0.929	5.80	0.924	5.17
<i>Eucalyptus globules</i> Labill.	Pinkard et al. (2006)	0.955	9.14	0.953	11.32
<i>Eucalyptus nitens</i> (H. Deane and Maiden) Maiden	Pinkard et al. (2006)	0.876	12.82	0.943	11.07
<i>Solanum tuberosum</i> L.	Uddling et al. (2007)	0.455	13.07	0.451	14.22
<i>Triticum aestivum</i> L.	Uddling et al. (2007)	0.890	8.92	0.884	10.57



Appendix 2. Relationships between leaf chlorophyll content ($\mu\text{g cm}^{-2}$) and SPAD units for 13 neotropical trees. Specific homographic models were parameterized for each species. The number of samples per species (n), the parameters of the homographic models (α and β) and the coefficient of determination (R^2) are provided in Table I.