

Table S1. The result of predictors which were significantly related to sampled AGB with marks *, and ** as p -values of a t -test below 0.05 and 0.01, respectively.

Stratification	Group	Variables	r	Predictors
With topographical stratification	Whole forests	HH	0.111**	YES
		HV	0.122**	YES
		NP	-0.064*	YES
		VV_HOM	-0.082**	NO
		VV_ASM	-0.089**	NO
		VV_ENE	-0.092**	NO
		VV_MAX	-0.092**	NO
		VV_ENT	0.095**	YES
		VV_VAR	-0.091**	YES
		B2	-0.236**	YES
		B3	-0.212**	NO
		B4	-0.253**	NO
		B5	-0.213**	YES
		B6	0.178**	NO
		B7	0.194**	NO
		B8	0.187**	NO
		B8a	0.190**	NO
		B11	-0.117**	NO
		B12	-0.230**	NO
		RVI	0.279**	YES
		DVI	0.215**	NO
		NDVI	0.249**	NO
		EVI	0.194**	NO
		S2REP	0.214**	NO
		REIP	0.214**	NO
		SAVI	0.182**	NO
		MTCI	0.190**	YES
		MCARI	0.211**	YES
		H	0.156**	YES
		A	0.101**	YES
		SPI	0.145**	YES
	Deciduous broad- leaved forests	VV	-0.077*	YES
		NP	-0.083*	YES
		V/H_C	0.081*	NO
		VV_MEA	-0.130**	NO
		VV_VAR	-0.137**	YES
		B2	-0.127**	YES
		B3	-0.120**	NO
		B4	-0.176**	NO
		B5	-0.164**	NO
		B6	0.127**	NO
		B7	0.156**	NO
		B8	0.145**	NO
		B8a	0.152**	NO
		B11	-0.099**	YES
		B12	-0.187**	YES

		RVI	0.224**	YES
		DVI	0.161**	NO
		NDVI	0.180**	NO
		EVI	0.164**	YES
		S2REP	0.166**	NO
		REIP	0.166**	NO
		SAVI	0.134**	YES
		MTCI	0.156**	YES
		MCARI	0.166**	YES
		A	0.097**	YES
Evergreen coniferous forests		SPI	0.169**	YES
		HH	0.552**	YES
		RFDI	-0.511*	NO
		V/H_L	0.527**	YES
		VV	0.389*	NO
		VV_COR	0.487*	YES
Deciduous coniferous forests		B2	-0.372**	NO
		B3	-0.392**	YES
		B4	-0.341**	NO
		B5	-0.371**	NO
		B11	-0.224*	NO
		B12	-0.291**	NO
		RVI	0.305**	YES
		DVI	0.198*	NO
		NDVI	0.289**	NO
		EVI	0.303**	NO
		S2REP	0.241**	NO
		REIP	0.241**	NO
		MTCI	0.207*	YES
		MCARI	0.283**	NO
Mixed broadleaf-conifer forests		HH	0.345**	YES
		HV	0.270**	YES
		RFDI	-0.225**	NO
		VV	0.173*	NO
		VV_MEA	0.244**	YES
		VV_VAR	0.233**	NO
		VV_COR	0.231**	NO
		VH_DIS	0.178*	YES
		B2	-0.307**	YES
		B3	-0.300**	NO
		B4	-0.270**	NO
		B5	-0.261**	NO
		B11	-0.286**	NO
		B12	-0.260**	NO
Without topographical stratification	Whole forests	NDVI	0.191*	NO
		MCARI	0.196*	YES
		H	0.391**	YES
		HH	0.125**	YES
		HV	0.125**	YES
		NP	-0.060*	YES
		VV_HOM	-0.088**	NO

Deciduous broad-leaved forests	VV_ASM	-0.100**	NO
	VV_ENE	-0.101**	NO
	VV_MAX	-0.102**	YES
	VV_ENT	0.101**	NO
	VV_MEA	-0.071*	NO
	VV_VAR	-0.096**	YES
	B2	-0.237**	YES
	B3	-0.210**	NO
	B4	-0.254**	NO
	B5	-0.213**	YES
	B6	0.177**	NO
	B7	0.194**	NO
	B8	0.185**	NO
	B8a	0.190**	NO
	B11	-0.120**	NO
	B12	-0.231**	NO
	RVI	0.278**	YES
	DVI	0.213**	NO
	NDVI	0.249**	NO
	EVI	0.194**	YES
	S2REP	0.214**	NO
	REIP	0.214**	NO
	SAVI	0.180**	NO
	MTCI	0.175**	YES
	MCARI	0.209**	YES
	H	0.157**	YES
	A	0.105**	YES
	SPI	0.109*	YES
	HH	0.085*	YES
	VV	-0.083*	NO
	NP	-0.080*	YES
	V/H_C	0.078*	NO
	VV_MEA	-0.136**	NO
	VV_VAR	-0.143**	YES
	B2	-0.127**	YES
	B3	-0.117**	NO
	B4	-0.177**	NO
	B5	-0.163**	NO
	B6	0.127**	NO
	B7	0.157**	NO
	B8	0.144**	NO
	B8a	0.153**	NO
	B11	-0.102**	YES
	B12	-0.188**	YES
	RVI	0.223**	YES
	DVI	0.160**	NO
	NDVI	0.180**	NO
	EVI	0.163**	YES
	S2REP	0.167**	NO
	REIP	0.167**	NO
	SAVI	0.133**	YES

Evergreen coniferous forests	MTCI	0.139**	YES
	MCARI	0.165**	YES
	A	0.106**	YES
	SPI	0.125*	YES
	HH	0.517**	YES
	V/H_L	0.426*	YES
Deciduous coniferous forests	VV_COR	0.460*	YES
	B2	−0.374**	NO
	B3	−0.388**	YES
	B4	−0.342**	NO
	B5	−0.367**	NO
	B11	−0.225*	NO
	B12	−0.293**	NO
	RVI	0.303**	NO
	DVI	0.196*	NO
	NDVI	0.290**	NO
	EVI	0.304**	YES
	S2REP	0.237*	YES
	REIP	0.237*	NO
	MTCI	0.199*	YES
	MCARI	0.287**	NO
Mixed broadleaf–conifer forests	HH	0.365**	YES
	HV	0.293**	YES
	RFDI	−0.185*	YES
	VV	0.171*	NO
	VV_MEA	0.242**	YES
	VV_VAR	0.231**	NO
	VV_COR	0.239**	NO
	B2	−0.306**	YES
	B3	−0.299**	NO
	B4	−0.269**	NO
	B5	−0.261**	NO
	B11	−0.285**	NO
	B12	−0.258**	NO
	NDVI	0.192*	NO
	MCARI	0.199*	YES
	H	0.392**	YES