

Appendix 1: Whole plant, epiphyte, liana, terrestrial herb and tree/woody plant inventories in the Neotropics. All references are cited in the main text except:

Boom BM (1987) Un inventario selvatico en la zona amazónica de Bolivia. *Ecol Bolivia* 10:1–14

Hietz P, Hietz-Seifert U (1995) Structure and ecology of epiphyte communities of a cloud forest in central Veracruz, Mexico. *J Veg Sci* 6:719–728

Saldias M (1991) Inventario de árboles en el bosque alto del Jardín Botánico de Santa Cruz, Bolivia. *Ecol Bolivia* 17:31–46

Saldias M, Guillen R, Mostacedo VB et al (1994) Composición y estructura de un bosque alto húmedo del Parque Nacional "Noel Kempff Mercado". Paper presented at the 6th Congreso Latinoamericano de Botánica, Mar de Plata, 2–8 October 1994

Vargas I (1995) Estructura y composición de cuatro sitios boscosos en el Parque Nacional Amboro. Tesis de Grado, Universidad Autónoma Gabriel René Moreno, Santa Cruz, Bolivia

Vargas I, de Centurión TR, Saldias M (1994) Parcela permanente de investigación en la Reserva de Vida Silvestre Ríos Blanco y Negro, Santa Cruz, Bolivia. *Rev Soc Estud Bot (Santa Cruz)* 1:9–32

	Reference	No. Species	Area (ha)	Precipitation (mm/year)	Altitude (m)	Notes
Whole plant counts						
Los Volcanes-D	This Study	297	1	1200-1500	1100	
Los Volcanes-SD	This Study	382	1	1200-1500	1000	
Los Volcanes-E	This Study	381	1	1200-1500	1000	
Nuqui (CO)	Galeano et al. 1998	488	0.4	5100	<300	Woody plant shorter than 1.3m not sampled
Coqui (CO)	Galeano et al. 1998	489	0.4	5100	<300	Woody plant shorter than 1.3m not sampled
El Amargal (CO)	Galeano et al. 1998	442	0.1	5100	<300	Saplings less than 50 cm not sampled
Caquetá (CO)	Duivenvoorden 1994	313	0.1	3060	<300	Only most diverse 0.1 plot considered
La Selva (CR)	Whitmore et al. 1985	233	0.01	4000	100	Destructive sampling
Cuyabeno (EC)	Balslev et al. 1998	942	1	3555	260	Shrubs and trees 1-5 cm sampled in subplot of 0.49ha
Rio Palenque (EC)	Gentry and Dodson 1987	365	0.1	2890	<220	
Jauneche (EC)	Gentry and Dodson 1987	169	0.1	1855	<220	
Sinamary (FG)	Bordenave et al. 1998	203	0.05	NA	40	Destructive sampling
Capeira (EC)	Gentry and Dodson 1987	173	0.1	804	<220	
Sehuencas A (BO)	Ibisch 1996	108	0.01	3540	2150	
Sehuencas B (BO)	Ibisch 1996	65	0.01	3540	2150	
Sehuencas C (BO)	Ibisch 1996	128	0.02	3540	2200	
Sehuencas D (BO)	Ibisch 1996	146	0.02	3540	2100	
Sehuencas E (BO)	Ibisch 1996	115	0.02	3540	2100	
Epiphytes						
Los Volcanes-D	This Study	67	1	1200-1500	1100	
Los Volcanes-SD	This Study	81	1	1200-1500	1000	
Los Volcanes-E	This Study	109	1	1200-1500	1000	
Caquetá (CO)	Benavides et al. 2005	213	0.75	3060	<300	Various physiographic units sampled
Chiribiquete (CO)	Arévalo and Betancur 2004	183	0.2	3100-3876	<330	Four physiognomic units
Surumoni (VE)	Nieder et al. 2000	53	1.5	2700	100	
Nuqui (CO)	Galeano et al. 1998	111	0.4	5100	<300	Erect + climbing epiphytes
Coqui (CO)	Galeano et al. 1998	174	0.4	5100	<300	Erect + climbing epiphytes
El Amargal (CO)	Galeano et al. 1998	101	0.1	5100	<300	Erect + climbing epiphytes
Caquetá (CO)	Duivenvoorden 1994	58	1	3060	<300	Various physiographic units sampled.
La Selva (CR)	Whitmore et al. 1985	61	0.01	4000	100	Destructive sampling
Cuyabeno (EC)	Balslev et al. 1998	172	1	3555	260	

Rio Palenque (EC)	Gentry and Dodson 1987	127	0.1	2890	<220 Including hemiepiphytes
Jauneche (EC)	Gentry and Dodson 1987	13	0.1	1855	<220 Including hemiepiphytes
Sinamary (FG)	Bordenave et al. 1998	33	0.05	NA	40 Destructive sampling
Capeira (EC)	Gentry and Dodson 1987	3	0.1	804	<220 Including hemiepiphytes
Veracruz (MX)	Hietz and Hietz-Seifert 1995	39	0.06	1850	1980
Lianas					
Los Volcanes-D	This Study	64	1	1200-1500	1100
Los Volcanes-SD	This Study	86	1	1200-1500	1000
Los Volcanes-E	This Study	44	1	1200-1500	1000
Yasuní (EC)	Burnham 2004	88	1	2400	<300 Mean of 12 subsampled 1ha plots, only lianas more than 1cm included
Yasuní (EC)	Nabe-Nielsen 2001	138	0.4	2932-3265	240
Oquiriquia (BO)	Perez-Salicrup et al. 2001	51	1	1200-1700	200 Only lianas more than 2 cm included
La Selva (CR)	Mascaro et al. 2004	60	0.09	4000	NA Only lianas more than 1.3 m height and 2 cm dbh
Nuqui (CO)	Galeano et al. 1998	62	0.4	5100	<300
Coqui (CO)	Galeano et al. 1998	25	0.4	5100	<300
El Amargal (CO)	Galeano et al. 1998	30	0.1	5100	<300
Caquetá (CO)	Duivenvoorden 1994	342	1	3060	<300 Various physiographic units sampled.
La Selva (CR)	Whitmore et al. 1985	20	0.01	4000	100 Destructive sampling
Cuyabeno (EC)	Balslev et al. 1998	99	1	3555	260
Rio Palenque (EC)	Gentry and Dodson 1987	48	0.1	2890	<220
Jauneche (EC)	Gentry and Dodson 1987	101	0.1	1855	<220
Sinamary (FG)	Bordenave et al. 1998	42	0.05	NA	40 Destructive sampling
Capeira (EC)	Gentry and Dodson 1987	77	0.1	804	<220
Terrestrial Herbs					
Los Volcanes-D	This Study	30	1	1200-1500	1100
Los Volcanes-SD	This Study	41	1	1200-1500	1000
Los Volcanes-E	This Study	57	1	1200-1500	1000
BCI (PA)	Royo and Carson 2005	47	0.18	2600	130
Cuyabeno (EC)	Poulsen and Balslev 1991	56	1	2479-3244	260 Only obligate terrestrials
Manaus (BR)	Costa 2004	35	0.09	2478	<300
Nuqui (CO)	Galeano et al. 1998	96	0.4	5100	<300
Coqui (CO)	Galeano et al. 1998	61	0.4	5100	<300
El Amargal (CO)	Galeano et al. 1998	63	0.1	5100	<300
Caquetá (CO)	Duivenvoorden 1994	145	1	3060	<300 Various physiographic units sampled.
La Selva (CR)	Whitmore et al. 1985	16	0.01	4000	100 Destructive sampling
Rio Palenque (EC)	Gentry and Dodson 1987	50	0.1	2890	<220
Jauneche (EC)	Gentry and Dodson 1987	18	0.1	1855	<220
Sinamary (FG)	Bordenave et al. 1998	34	0.05	NA	40 Destructive sampling
Capeira (EC)	Gentry and Dodson 1987	50	0.1	804	<220
Trees (dbh>10 cm)					
Los Volcanes-D	This Study	71	1	1200-1500	1100
Los Volcanes-SD	This Study	105	1	1200-1500	1000
Los Volcanes-E	This Study	84	1	1200-1500	1000
Lowland humid forests					

Alto Ivon (BO)	Boom 1987	94	1	1550	200
R. Blanco y Negro (BO)	Vargas et al. 1994	90	1	1400	300
Rio Colorado (BO)	Smith and Killeen 1998	78	1	2500	270
Los Fierros (BO)	Saldias et al. 1994	75	1	1500	300
Rio Saguay (BO)	Vargas 1995	67	1	1700	360
Nuqui (CO)	Galeano et al. 1998	86	0.4	5100	<300
Coqui (CO)	Galeano et al. 1998	80	0.4	5100	<300
El Amargal (CO)	Galeano et al. 1998	34	0.1	5100	<300
Caquetá (CO)	Duivenvoorden 1994	303	1	3060	<300 Various physiographic units. Trees, shrubs and woody vines smaller than 50 cm not sampled
La Selva (CR)	Whitmore et al. 1985	NA	0.01	4000	100 Destructive sampling
Cuyabeno (EC)	Balslev et al. 1998	307	1	3555	260 Shrubs and trees 1-5 cm sampled in subplot of 0.49ha
Rio Palenque (EC)	Gentry and Dodson 1987	32	0.1	2890	<220
Jauneche (EC)	Gentry and Dodson 1987	30	0.1	1855	<220
Sinamary (FG)	Bordenave et al. 1998	NA	0.05	NA	40 Destructive sampling
Lowland deciduous forests					
Las Torres (BO)	Seidel, in Smith and Killeen 1998	40	1	1500	350
Cerro Pelao (BO)	Seidel, in Smith and Killeen 1998	62	1	1500	400
JB Santa Cruz (BO)	Saldias 1991	34	1	1150	375
Capeira (EC)	Gentry and Dodson 1987	29	0.1	804	<220
Montane humid forest					
Cumbre Pilon (BO)	Smith and Killeen 1998	146	1	2500	900
Sapecho (BO)	Seidel, in Smith and Killeen 1998	118	1	1600	700
Montane cloud forest					
San Rafael, Amboro (BO)	Vargas 1995	50	1	1500	1500
Trees and Shrubs, dbh > 2.5 cm (A. Gentry forest transect dataset, available at http://www.mobot.org/MOBOT/research/gentry/transect.shtml)					
Lowland humid forests					
La Selva (CR)	Gentry @ Mobot.org	102	0.1	4000	100
El Encanto (BO)	Gentry @ Mobot.org	74	0.1	1700	280
Alto Madidi (BO)	Gentry @ Mobot.org	146	0.1	3000	280
Nuevo Mundo (BO)	Gentry @ Mobot.org	116	0.1	1820	160
Rio Negro (BO)	Gentry @ Mobot.org	130	0.1	1820	100
Alter do Chao (BR)	Gentry @ Mobot.org	30	0.1	2000	50
Boraceia (BR)	Gentry @ Mobot.org	102	0.1	3500	800
Ducke Reserve (BR)	Gentry @ Mobot.org	203	0.1	2200	80
Manaus (BR)	Gentry @ Mobot.org	84	0.1	2000	85
Belem-Mocambo (BR)	Gentry @ Mobot.org	101	0.1	2760	20
Anchicaya (CO)	Gentry @ Mobot.org	111	0.1	3100	300
Araracuara (CO)	Gentry @ Mobot.org	217	0.1	3250	200
Bajo Calima (CO)	Gentry @ Mobot.org	212	0.1	7470	50
Tutunendo (CO)	Gentry @ Mobot.org	226	0.1	9000	90
Fila de Bilsa (EC)	Gentry @ Mobot.org	86	0.1	2500	280
Jatun Sacha (EC)	Gentry @ Mobot.org	182	0.1	4100	450
Rio Palenque (EC)	Gentry @ Mobot.org	98	0.1	2650	150
Saul (GF)	Gentry @ Mobot.org	120	0.1	2358	300

Berbice River (GU)	Gentry @ Mobot.org	90	0.1	2200	160
Allpahuayo (PE)	Gentry @ Mobot.org	208	0.1	3000	130
Bosque von Humboldt (PE)	Gentry @ Mobot.org	118	0.1	2500	270
Cabeza de Mono (PE)	Gentry @ Mobot.org	123	0.1	4000	320
Lowland deciduous forests					
Curuyuqui (BO)	Gentry @ Mobot.org	29	0.1	450	350
Perseverancia (BO)	Gentry @ Mobot.org	70	0.1	1350	100
Quiapaca (BO)	Gentry @ Mobot.org	53	0.1	900	300
Santa Cruz (BO)	Gentry @ Mobot.org	37	0.1	1200	375
Yanaigua (BO)	Gentry @ Mobot.org	27	0.1	400	250
Coloso 1 (CO)	Gentry @ Mobot.org	74	0.1	1000	300
Galerazamba (CO)	Gentry @ Mobot.org	34	0.1	500	10
Loma de los Colorados (CO)	Gentry @ Mobot.org	84	0.1	1000	200
Lomas de Santo Tomas (CO)	Gentry @ Mobot.org	57	0.1	1500	320
Tayrona National Park (CO)	Gentry @ Mobot.org	49	0.1	1500	50
Capeira (EC)	Gentry @ Mobot.org	40	0.1	800	50
Perro Muerto (EC)	Gentry @ Mobot.org	50	0.1	1550	450
Tarapoto (PE)	Gentry @ Mobot.org	73	0.1	1400	350
Blohm Ranch (VE)	Gentry @ Mobot.org	46	0.1	1400	100
Boca de Uchire (VE)	Gentry @ Mobot.org	51	0.1	1200	150
Montane humid forest					
Calabatea (BO)	Gentry @ Mobot.org	89	0.05	2000	1500
Chaquimayo (BO)	Gentry @ Mobot.org	52	0.1	1600	1000
Incahuara (BO)	Gentry @ Mobot.org	141	0.1	3500	1520
Sacramanto (BO)	Gentry @ Mobot.org	78	0.1	2450	2380
Alto de Cuevas (CO)	Gentry @ Mobot.org	90	0.1	4000	1670
Alto de Saoa (CO)	Gentry @ Mobot.org	50	0.1	4500	2660
Alto de Mirador (CO)	Gentry @ Mobot.org	65	0.1	2500	1180
Antado (CO)	Gentry @ Mobot.org	113	0.1	4500	1560
Carpanta Siete Cuerales (CO)	Gentry @ Mobot.org	61	0.1	3000	2350
Carpanta (CO)	Gentry @ Mobot.org	34	0.1	3000	2900
Cuangos (EC)	Gentry @ Mobot.org	119	0.1	2500	1500
El Corazon (EC)	Gentry @ Mobot.org	40	0.1	3700	3150
Maquipuna (EC)	Gentry @ Mobot.org	94	0.1	3000	1630
Cerro Aypate (PE)	Gentry @ Mobot.org	41	0.1	1800	2770
La Genoa (PE)	Gentry @ Mobot.org	81	0.1	2000	1140