

Supplemental Table S1. Species

lists Permanent plot species list

family	genus	species
Araceae	<i>Anthurium</i>	<i>sp.</i>
Begoniaceae	<i>Begonia</i>	<i>parviflora</i>
Burseraceae	<i>Dacryodes</i>	<i>peruviana</i>
Cardiopteridaceae	<i>Citronella</i>	<i>cf. ilicifolia</i>
Clusiaceae	<i>Garcinia</i>	<i>madruno</i>
Cyatheaceae	<i>Alsophila</i>	<i>cuspidata</i>
Euphorbiaceae	<i>Acalypha</i>	<i>diversifolia</i>
Fabaceae	<i>Inga</i>	<i>aff. sapindoides</i>
Fabaceae	<i>Inga</i>	<i>sp. 1</i>
Fabaceae	<i>Inga</i>	<i>sp. 2</i>
Fabaceae	<i>Inga</i>	<i>sp. 3</i>
Gesneriaceae	<i>Gasteranthus</i>	<i>corallinus</i>
Heliconiaceae	<i>Heliconia</i>	<i>aff. fragilis</i>
Lauraceae	<i>Caryodaphnopsis</i>	<i>theobromifolia</i>
Lauraceae	<i>Nectandra</i>	<i>lineatifolia</i>
Lauraceae	<i>Persea</i>	<i>pseudofasciculata</i>
Lauraceae	<i>Rhodostemonodaphne</i>	<i>cf. cyclops</i>
Malvaceae	<i>Quararibea</i>	<i>casasecae</i>
Marattiaceae	<i>Danea</i>	<i>erecta</i>
Melastomataceae	<i>Meriania</i>	<i>tomentosa</i>
Melastomataceae	<i>Miconia</i>	<i>brevithecata</i>
Melastomataceae	<i>Miconia</i>	<i>cf. gracilis</i>
Melastomataceae	<i>Miconia</i>	<i>floribunda</i>
Melastomataceae	<i>Ossaea</i>	<i>micrantha</i>
Moraceae	<i>Clarisia</i>	<i>biflora</i>
Moraceae	<i>Ficus</i>	<i>cuatrecasiana</i>
Moraceae	<i>Helicostylis</i>	<i>tovarensis</i>
Moraceae	<i>Naucleopsis</i>	<i>ulei</i>
Myrtaceae	<i>Myrcia</i>	<i>fallax</i>
Olaceae	<i>Heisteria</i>	<i>concinna</i>

Piperaceae	<i>Piper</i>	<i>obliquum</i>
Piperaceae	<i>Piper</i>	<i>spoliatum</i>
Primulaceae	<i>Geissanthus</i>	<i>cf. longistamine us</i>
Rubiaceae	<i>Condaminea</i>	<i>corymbosa</i>
Rubiaceae	<i>Faramea</i>	<i>aff. oblongifolia</i>
Rubiaceae	<i>Palicourea</i>	<i>demissa</i>
Rubiaceae	<i>Pentagonia</i>	<i>sp.</i>
Sabiaceae	<i>Meliosma</i>	<i>occidentalis</i>
Sapindaceae	<i>Allophylus</i>	<i>punctatus</i>
Sapindaceae	<i>Allophylus</i>	<i>sp.</i>
Solanaceae	<i>Solanum</i>	<i>leptodoum</i>
Tapisciaceae	<i>Huerteia</i>	<i>glandulosa</i>
Thymelaeaceae	<i>Daphnopsis</i>	<i>grandis</i>

Rapid survey species list

family	genus	species
Actinidaceae	Saurauia	sp.
Actinidaceae	sp.	
Anacardiaceae	Mauria	cf. heterophylla
Anacardiaceae	Tapirira	guianensis
Annonaceae	Guatteria	cf. megalophylla
Annonaceae	Guatteria	megalophylla
Annonaceae	Guatteria	sp.
Annonaceae	Rollinia	aff. dolichopetala
Annonaceae	Rollinia	edulis
Annonaceae	sp.	
Aquifoliaceae	Ilex	cf. yurumanguinis
Aquifoliaceae	Ilex	laurina
Araliaceae	Dendropanax	aff. macrophyllum
Araliaceae	Dendropanax	cf. macrophyllum
Araliaceae	Oreopanax	confusus
Araliaceae	Oreopanax	ecuadorensis
Arecaceae	Chamaedorea	pinnatifrons
Arecaceae	Hyospathe	elegans
Arecaceae	Wettinia	aff. oxycarpa
Arecaceae	Wettinia	quinaria

Asteraceae	Criptoniosis	cf. occidentalis
Asteraceae	Critoniopsis	occidentalis
Asteraceae	Piptocoma	discolor
Asteraceae	sp.	
Asteraceae	Vernonanthura	patens
Bombacaceae	Matisia	aff. bolivarii
Bombacaceae	Matisia	castano
Bombacaceae	Matisia	sp.
Bombacaceae	Ochroma	pyramidale
Bombacaceae	Pachira	patinoi
Bombacaceae	Quararibea	aff. asterolepis
Bombacaceae	sp.	
Boraginaceae	Cordia	aff. mexiana
Boraginaceae	Cordia	colombiana
Boraginaceae	Cordia	mexicana
Boraginaceae	Cordia	sp.
Boraginaceae	Tournefortia	cf. ramosissima
Brunelliaceae	Brunellia	acostae
Brunelliaceae	Brunellia	comocladifolia
Burseraceae	Dacryodes	cf. cupularis
Burseraceae	Dacryodes	cupularis
Burseraceae	Protium	ecuadorensis
Burseraceae	Protium	sp.
Burseraceae	sp.	

Capparaceae	Capparis	macrophylla
Capparaceae	Capparis	sp.
Cecropiaceae	Cecropia	aff. andina
Cecropiaceae	Cecropia	aff. reticulata
Cecropiaceae	Cecropia	andina
Cecropiaceae	Cecropia	ficifolia
Cecropiaceae	Cecropia	reticulata
Cecropiaceae	Cecropia	sp.1
Cecropiaceae	Cecropia	sp.2
Cecropiaceae	Coussapoa	contorta
Chloranthaceae	Hedyosmum	cuatrecazanum
Chrysobalanaceae	Couepia	sp.
Chrysobalanaceae	Licania	durifolia
Chrysobalanaceae	Licania	sp.
Clusiaceae	Chrysochlamys	aff. dependens
Clusiaceae	Chrysochlamys	dependens
Clusiaceae	Chrysochlamys	sp.
Clusiaceae	Clusia	aff. dixonii
Clusiaceae	Clusia	aff. hydrogera
Clusiaceae	Clusia	dixonii
Clusiaceae	Clusia	sp.
Clusiaceae	Clusia	trochimorfis
Clusiaceae	Garcinia	macrophylla
Clusiaceae	Vismia	lauriformis

Cunoniaceae	Weinmannia	balbisiana
Cyatheaceae	Alsophila	cuspidata
Cyatheaceae	Alsophila	erinacea
Cyatheaceae	Cyathea	caracasana
Cyatheaceae	Cyathea	halonata
Cyatheaceae	sp.	
Dichapetalaceae	Stephanopodium	angulatum
Dichapetalaceae	Stephanopodium	longipedicellatum
Dicksoniaceae	Dicksonia	sellowiana
Elaeocarpaceae	Sloanea	cf. grandiflora
Elaeocarpaceae	Sloanea	sp. 1
Elaeocarpaceae	Sloanea	sp. 2
Ericaceae	Psammisia	aberrans
Ericaceae	Psammisia	sodiroi
Erythroxylaceae	Erythroxylum	cf. novogranatense
Euphorbiaceae	Acalypha	aff. diversifolia
Euphorbiaceae	Acalypha	diversifolia
Euphorbiaceae	Alchornea	cf. grandis
Euphorbiaceae	Alchornea	cf. leptogyna
Euphorbiaceae	Hieronyma	alchorneoides
Euphorbiaceae	Hieronyma	asperifolia
Euphorbiaceae	Plukenetia	volubilis
Euphorbiaceae	Sapium	marmieri
Euphorbiaceae	Sapium	stylare

Euphorbiaceae	Tetrorchidium	andinum
Euphorbiaceae	Tetrorchidium	macrophyllum
Fab-Caesalpiaceae	Senna	dariensis
Fab-Faboideae	Dussia	lehmannii
Fab-Faboideae	Erythrina	megistophylla
Fab-Faboideae	Erythrina	schimpffii
Fab-Faboideae	Erythrina	sp.
Fab-Faboideae	Lonchocarpus	sp.
Fab-Faboideae	sp.	
Fab-Mimosoideae	Abarema	sp.
Fab-Mimosoideae	Cojoba	arborea
Fab-Mimosoideae	Inga	aff. lallensis
Fab-Mimosoideae	Inga	aff. nobilis
Fab-Mimosoideae	Inga	aff. sapindoides
Fab-Mimosoideae	Inga	aff. villosissima
Fab-Mimosoideae	Inga	lallensis
Fab-Mimosoideae	Inga	oerstediana
Fab-Mimosoideae	Inga	punctata
Fab-Mimosoideae	Inga	sp.
Fab-Mimosoideae	Inga	villosissima
Fab-Mimosoideae	sp.	
Flacourtiaceae	Banara	guianensis
Flacourtiaceae	Banara	regia

Flacourtiaceae	Banara	riparia
Flacourtiaceae	Casearia	cajambrensis
Flacourtiaceae	Casearia	sylvestris
Flacourtiaceae	sp.	
Hippocrataceae	Salacia	cordata
Indeterminado	sp. 1	
Indeterminado	sp. 10	
Indeterminado	sp. 11	
Indeterminado	sp. 12	
Indeterminado	sp. 13	
Indeterminado	sp. 14	
Indeterminado	sp. 15	
Indeterminado	sp. 16	
Indeterminado	sp. 17	
Indeterminado	sp. 18	
Indeterminado	sp. 19	
Indeterminado	sp. 2	
Indeterminado	sp. 3	
Indeterminado	sp. 4	
Indeterminado	sp. 5	
Indeterminado	sp. 6	
Indeterminado	sp. 7	

Indeterminado	sp. 8	
Indeterminado	sp. 9	
Lauraceae	Aniba	aff. hostmanniana
Lauraceae	Aniba	cf. hostmanniana
Lauraceae	Beilschmiedia	aff. costaricensis
Lauraceae	Beilschmiedia	alloiophylla
Lauraceae	Beilschmiedia	sp.
Lauraceae	Caryodaphnopsis	theobromifolia
Lauraceae	Cinnamomum	triplinerve
Lauraceae	Endlicheria	cf. chalisea
Lauraceae	Endlicheria	cf. sericea
Lauraceae	Endlicheria	cf. tessmannii
Lauraceae	Endlicheria	formosa
Lauraceae	Endlicheria	klugii
Lauraceae	Endlicheria	sp.
Lauraceae	Licaria	aff. tomentosa
Lauraceae	Licaria	cf. tomentosa
Lauraceae	Nectandra	acutifolia
Lauraceae	Nectandra	aff. guararipo
Lauraceae	Nectandra	aff. laurel
Lauraceae	Nectandra	aff. membranacea
Lauraceae	Nectandra	aff. parviflora
Lauraceae	Nectandra	aff. Purpurea
Lauraceae	Nectandra	guadaripo

Lauraceae	Nectandra	membranacea
Lauraceae	Nectandra	obtusata
Lauraceae	Nectandra	sp. 1
Lauraceae	Nectandra	sp. 2
Lauraceae	Nectandra	sp. 3
Lauraceae	Nectandra	sp.1
Lauraceae	Ocotea	aff. cernua
Lauraceae	Ocotea	aff. floccifera
Lauraceae	Ocotea	aff. heterochroma
Lauraceae	Ocotea	aff. insularis
Lauraceae	Ocotea	aff. oblonga
Lauraceae	Ocotea	cernua
Lauraceae	Ocotea	floccifera
Lauraceae	Ocotea	insularis
Lauraceae	Ocotea	macrophylla
Lauraceae	Ocotea	oblonga
Lauraceae	Ocotea	sp. 1
Lauraceae	Ocotea	sp. 2
Lauraceae	Ocotea	stenoneura
Lauraceae	Persea	aff. areolatocostae
Lauraceae	Persea	aff. pseudofasciculata
Lauraceae	Persea	povedae
Lauraceae	Persea	pseudofasciculata
Lauraceae	Persea	rigens

Lauraceae	Pleurothyrium	aff. giganthum
Lauraceae	Pleurothyrium	cinereum
Lauraceae	Pleurothyrium	giganthum
Lauraceae	Pleurothyrium	glabritepalum
Lauraceae	Pleurothyrium	sp.
Lauraceae	Rhodostemonodaphne	aff. cyclops
Lauraceae	Rhodostemonodaphne	cyclops
Lauraceae	sp. 1	
Lauraceae	sp. 2	
Lauraceae	sp. 3	
Lauraceae	sp. 4	
Lecythidaceae	Eschweilera	caudiculata
Lecythidaceae	Eschweilera	integrifolia
Lecythidaceae	Eschweilera	rimbachii
Lecythidaceae	Gustavia	dodsonii
Magnoliaceae	Talauma	cf. gilbertoi
Malpighiaceae	sp.	
Malvaceae	Wercklea	ferox
Malvaceae	Wercklea	sp.
Melastomataceae	Conostegia	aff. centronioides
Melastomataceae	Conostegia	cuatrecasii
Melastomataceae	Conostegia	superba
Melastomataceae	Leandra	subseriata

Melastomataceae	Meriania	finicola
Melastomataceae	Meriania	maxima
Melastomataceae	Meriania	tomentosa
Melastomataceae	Miconia	aff. brevitheca
Melastomataceae	Miconia	aggregata
Melastomataceae	Miconia	cf. subnodosa
Melastomataceae	Miconia	dapsiliflora
Melastomataceae	Miconia	loveyoides
Melastomataceae	Miconia	sp.
Melastomataceae	Ossaea	cf. micrantha
Melastomataceae	Ossaea	micrantha
Melastomataceae	Ossaea	robusta
Melastomataceae	sp. 1	
Melastomataceae	sp. 3	
Melastomataceae	sp.1	
Melastomataceae	sp.2	
Melastomataceae	sp.3	
Melastomataceae	Topobea	dodsonorum
Meliaceae	Guarea	aff. macrophylla
Meliaceae	Guarea	cartaguenya
Meliaceae	Guarea	cf. pubescens
Meliaceae	Guarea	cf. subandina
Meliaceae	Guarea	kunthiana
Meliaceae	Ruagea	aff. glabra

Meliaceae	Ruagea	cf. glabra
Meliaceae	Ruagea	cf. pubescens
Meliaceae	Ruagea	glabra
Meliaceae	Ruagea	pubescens
Meliaceae	Ruagea	trisperma
Meliaceae	sp. 1	
Meliaceae	sp.1	
Meliaceae	sp.2	
Meliaceae	Trichilia	aff. septentrionalis
Meliaceae	Trichilia	septentrionalis
Meliaceae	Trichilia	sp.
Meliaceae	Trichilia	sp. 1
Monimiaceae	Mollinedia	sp.
Moraceae	Clarisia	biflora
Moraceae	Ficus	andicola
Moraceae	Ficus	caldasiana
Moraceae	Ficus	cf. caldasiana
Moraceae	Ficus	cotopaxiensis
Moraceae	Ficus	cuatrecasana
Moraceae	Ficus	dulciaria
Moraceae	Ficus	macbridei
Moraceae	Ficus	maxima
Moraceae	Ficus	mutisii
Moraceae	Ficus	sibundoya

Moraceae	Ficus	sp.
Moraceae	Ficus	subandina
Moraceae	Ficus	tonduzii
Moraceae	Ficus	trianae
Moraceae	Helicostylis	tomentosa
Moraceae	Helicostylis	tovarensis
Moraceae	Morus	insignis
Moraceae	Naucleopsis	naga
Moraceae	Perebea	aff. xanthochyma
Moraceae	Pseudolmedia	macrophylla
Moraceae	Pseudolmedia	rigida
Moraceae	Sorocea	jaramilloi
Moraceae	Sorocea	steinbachii
Moraceae	sp.	
Moraceae	sp. 1	
Moraceae	Trophis	racemosa
Moraceae	vs. Perebea	angustifolia
Myristicaceae	Otoba	gordoniifolia
Myristicaceae	Virola	aff. sebifera
Myristicaceae	Virola	sp.
Myrsinaceae	Ardisia	cf. colombiana
Myrsinaceae	Cybianthus	humilis
Myrsinaceae	Geissanthus	aff. longistamineus
Myrsinaceae	Geissanthus	aff. pinchinchana

Myrsinaceae	Stylogyne	ambigua
Myrsinaceae	Weigeltia	cf. goudotiana
Myrtaceae	Calyptranthes	sp.
Myrtaceae	Eugenia	cf. florida
Myrtaceae	Eugenia	florida
Myrtaceae	Eugenia	sp.
Myrtaceae	Myrcia	aff. aliena
Myrtaceae	Myrcia	aff. fallax
Myrtaceae	Myrcia	cf. aliena
Myrtaceae	Myrcia	cf. fallax
Myrtaceae	Myrcia	fallax
Myrtaceae	Myrcia	splendens
Myrtaceae	sp.	
Ochnaceae	Ouratea	aff. weberbaueri
Ochnaceae	Ouratea	weberbaueri
Olacaceae	Heisteria	sp.
Piperaceae	Piper	aduncum
Piperaceae	Piper	aff. nudibracteatum
Piperaceae	Piper	cf. imperiale
Piperaceae	Piper	fuliginosum
Piperaceae	Piper	imperiale
Piperaceae	Piper	sp.
Rubiaceae	Agouticarpa	grandistipula
Rubiaceae	Condaminea	corymbosa

Rubiaceae	Elaeagia	cf. karstenii
Rubiaceae	Elaeagia	karstenii
Rubiaceae	Elaeagia	utilis
Rubiaceae	Faramea	aff. calyptrata
Rubiaceae	Faramea	flavicans
Rubiaceae	Faramea	fragans
Rubiaceae	Faramea	glandulosa
Rubiaceae	Faramea	oblongifolia
Rubiaceae	Faramea	sp.
Rubiaceae	Guettarda	crispiflora
Rubiaceae	Guettarda	hirsuta
Rubiaceae	Hoffmannia	cf. parviflora
Rubiaceae	Isertia	laevis
Rubiaceae	Isertia	pittieri
Rubiaceae	Palicourea	acanthacea
Rubiaceae	Palicourea	aff. chignul
Rubiaceae	Palicourea	amethystina
Rubiaceae	Palicourea	cf. stipularis
Rubiaceae	Palicourea	chimboracensis
Rubiaceae	Palicourea	gentryi
Rubiaceae	Palicourea	gibbosa
Rubiaceae	Palicourea	sp.
Rubiaceae	Palicourea	stipularis
Rubiaceae	Palicourea	thyrsiflora

Rubiaceae	Pentagonia	macrophylla
Rubiaceae	Psychotria	cf. steyermarkii
Rubiaceae	Psychotria	flaviflora
Rubiaceae	Psychotria	gentryi
Rubiaceae	Psychotria	paeonia
Rubiaceae	Psychotria	pilosa
Rubiaceae	Rondeletia	reflexa
Rubiaceae	sp. 1	
Rubiaceae	sp.1	
Rubiaceae	sp.2	
Rubiaceae	sp.3	
Rubiaceae	Tocoyena	pittieri
Rutaceae	Zanthoxylum	mauriifolium
Rutaceae	Zanthoxylum	sp.
Sabiaceae	Meliosma	aff. occidentalis
Sabiaceae	Meliosma	occidentalis
Sapindaceae	Allophyllus	floribundus
Sapindaceae	Allophyllus	incanus
Sapindaceae	Allophyllus	sp.
Sapindaceae	Cupania	aff. cinerea
Sapindaceae	Talisia	aff. nervosa
Sapindaceae	Talisia	cf. nervosa
Sapotaceae	Chrysophyllum	aff. venezuelanense
Sapotaceae	Chrysophyllum	cf. argenteum

Sapotaceae	Chrysophyllum	manaosense
Sapotaceae	Chrysophyllum	sp.
Sapotaceae	Pouteria	torta
Simaroubaceae	Simarouba	amara
Siparumaceae	Siparuna	laurifolia
Siparumaceae	Siparuna	salvioides
Siparumaceae	Siparuna	sp.
Siparunaceae	Siparuna	salvioides
Solanaceae	Cestrum	megalophyllum
Solanaceae	Markea	pavonii
Solanaceae	Solanum	aff. circinatum
Solanaceae	Solanum	aff. cucullatum
Solanaceae	Solanum	cf. circinatum
Solanaceae	Solanum	cucullatum
Solanaceae	Solanum	lepidotum
Solanaceae	Solanum	sp.
Staphyleaceae	Huertia	glandulosa
Staphyleaceae	Turpinia	occidentalis
Styracaceae	Styrax	weberbaueri
Symplocaceae	Symplocos	fuliginosa
Theaceae	Freziera	reticulata
Theophrastaceae	Clavija	eggersiana
Theophrastaceae	Clavija	membranacea
Thymelaeaceae	Schoenobiblus	cf. daphnoides

Thymelaeaceae	Schoenobiblus	daphnoides
Tiliaceae	sp.	
Ulmaceae	Trema	micrantha
Urticaceae	Boehmeria	caudata
Urticaceae	Phenax	aff. rugosus
Urticaceae	Urera	aff. caracasana
Urticaceae	Urera	baccifera
Urticaceae	Urera	caracasana
Verbenaceae	Aegiphila	alba
Violaceae	Gloeospermum	longifolium

Supplemental Table S2. Species diversity estimates for historical land-use/habitat types

Habitat/Land-use	species observed	chao	chao.se	jack1	jack1.se	jack2	boot	boot.se	n
BC	153	282.7	38.5	234.6	26.1	287.5	187.9	11.6	12
BS	151	262.5	35.3	222.5	22.3	268.6	182.0	10.0	12
CLB	146	288.0	43.2	226.7	26.8	281.1	180.2	11.5	12
RCA	52	103.0	25.3	78.3	15.5	92.8	63.6	6.9	4
RG	186	302.9	33.7	271.7	22.1	324.8	223.6	10.9	21

