ABOVE-GROUND BIODIVERSITY ASSESSMENT WORKING GROUP SUMMARY REPORT 1996-99

Impact of different land uses on biodiversity

Compiled by A.N. Gillison[1] (Coordinator)

Annexes I-V[2]

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This report is one of a series detailing results from the Alternatives to Slash-and-Burn (ASB) Programme, a system-wide initiative of the Consultative Group on International Agricultural Research (CGIAR). The ASB programme, initiated in 1994, seeks to reconcile agricultural production and development with mitigation of the adverse local and global environmental effects of deforestation. Research sites are located in humid tropical forest margins in Cameroon, Brazil, Peru, Indonesia and Thailand. The global coordination office is located at the headquarters of the World Agroforestry Centre (ICRAF).

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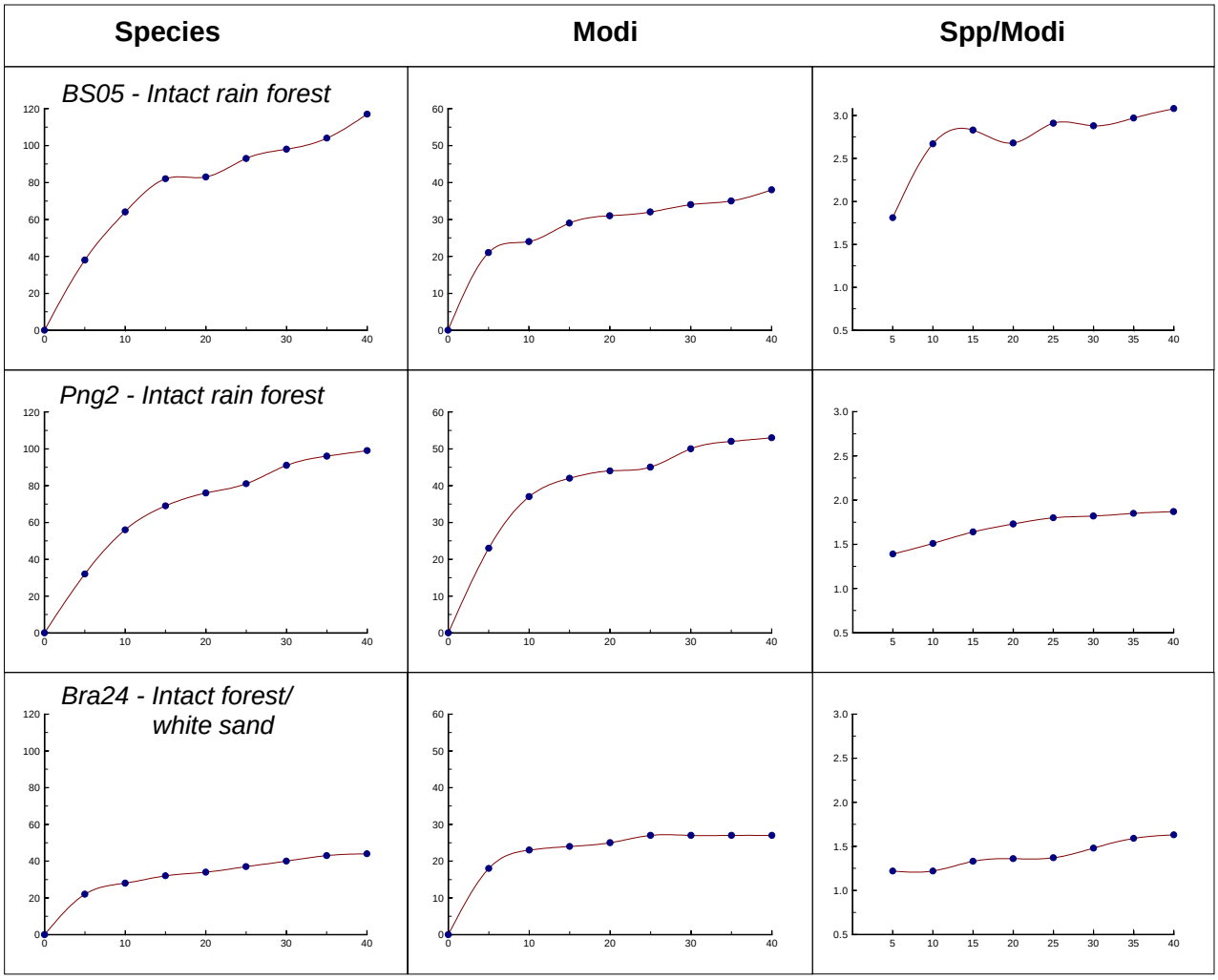
ANNEX I: Habitat Profiles Under Different Land Use Types

Figure 1.
Habitat profiles using cumulative Species, Modi and Species / modi ratio under different land use types

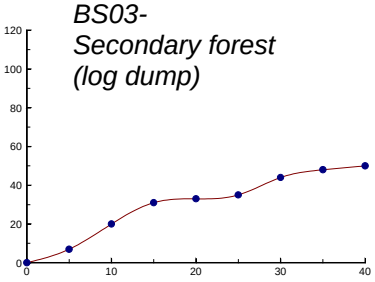
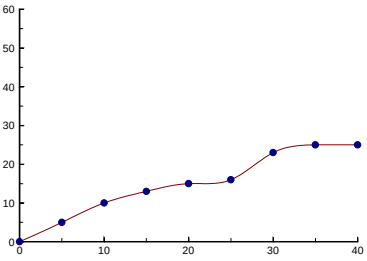
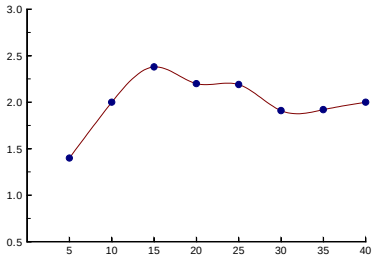
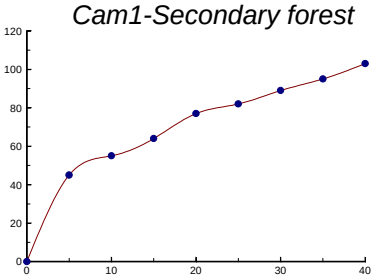
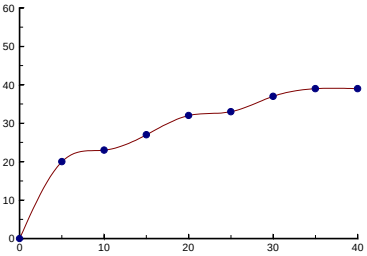
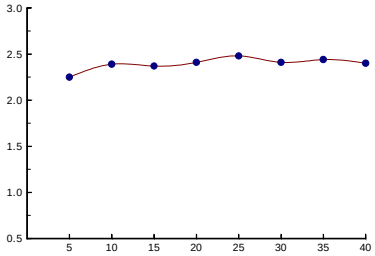
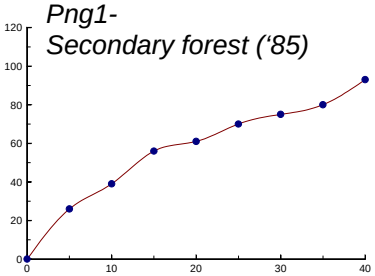
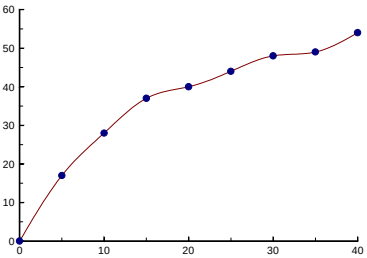
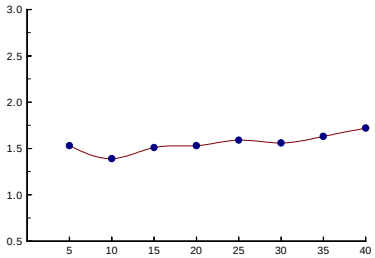
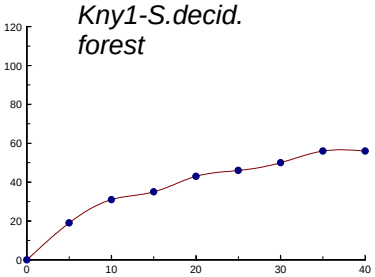
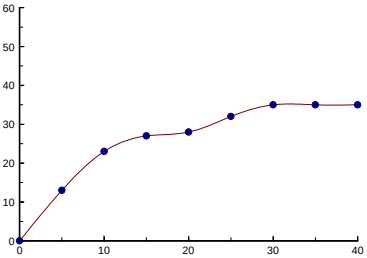
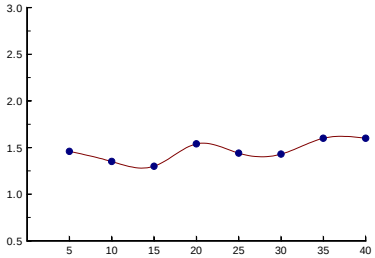
1. Intact rain Forest



ANNEX I

Figure 1. Continue …

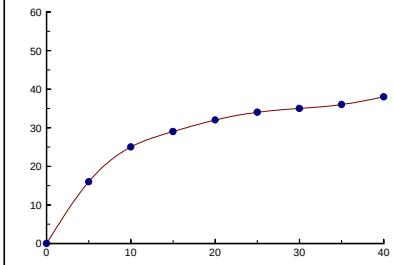
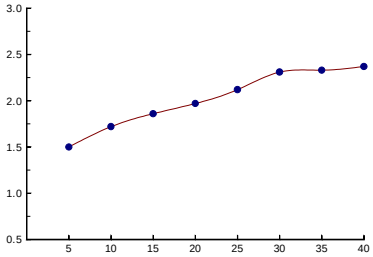
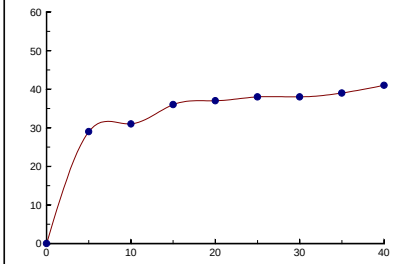
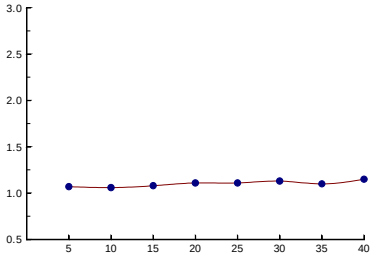
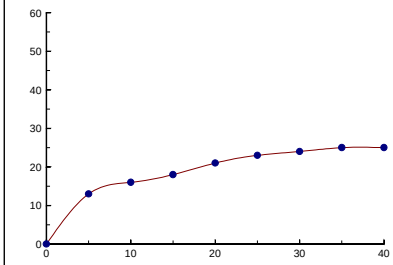
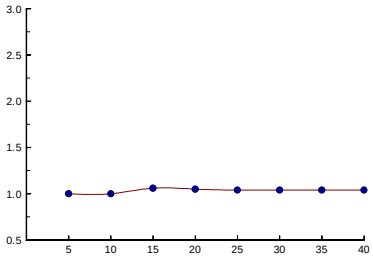
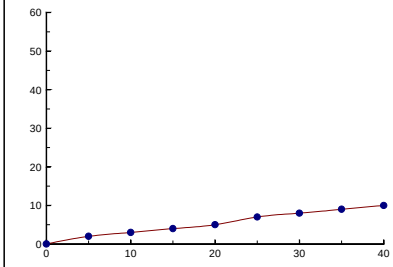
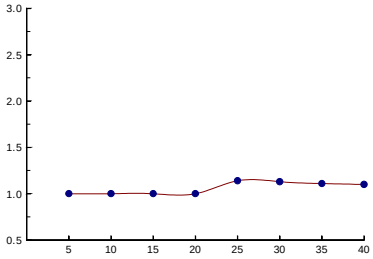
2. Secondary forest

Species	Modi	Spp/Modi
BS03-Secondary forest (log dump) 		
Cam1-Secondary forest 		
Png1-Secondary forest (‘85) 		
Kny1-S.decid. forest 		

ANNEX I

Figure 1. Continue …

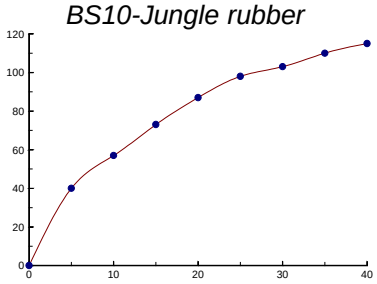
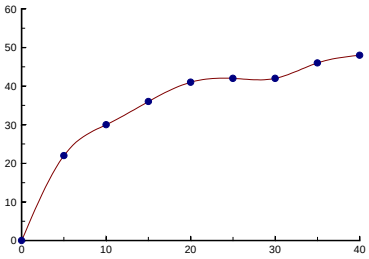
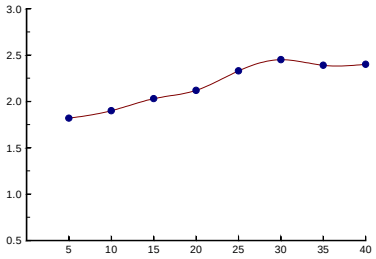
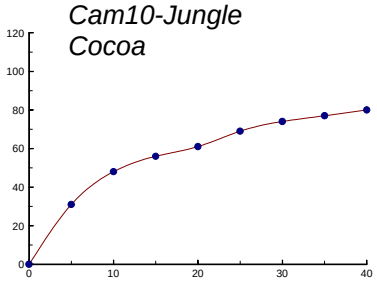
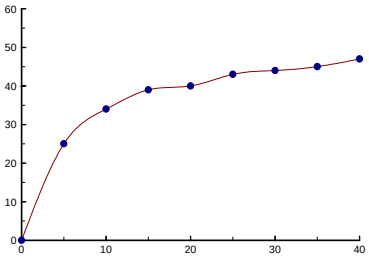
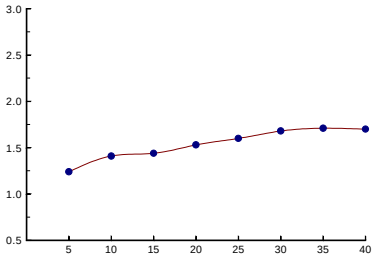
3. Savannas

Species	Modi	Spp/Modi
Bra22-Cerrado (woodland savanna)		
Cam17- Hyparrhenia woodland,Savanna		
Mad2- Palm savanna		
BS12-Imperata savanna		

ANNEX I

Figure 1. Continue …

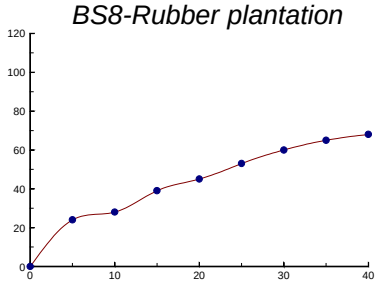
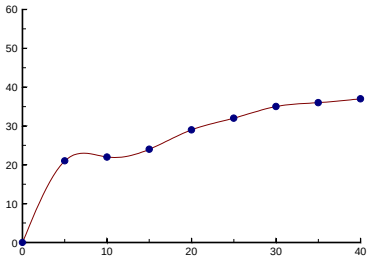
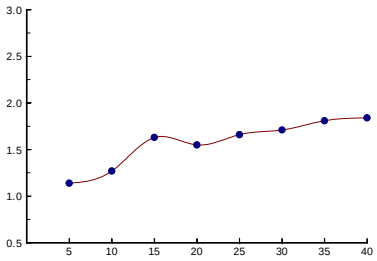
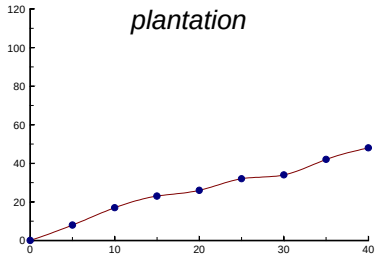
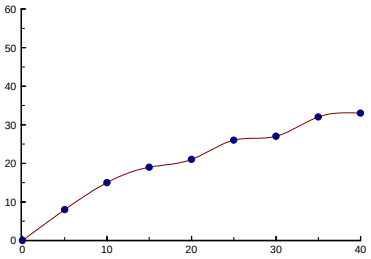
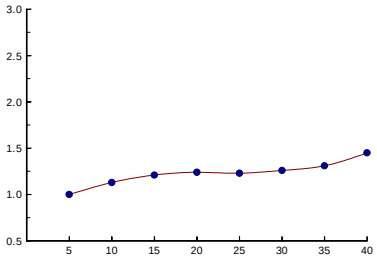
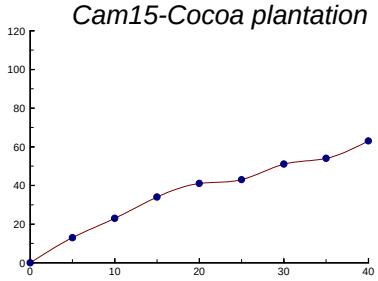
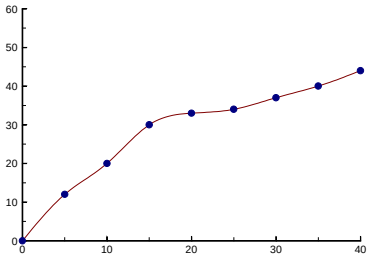
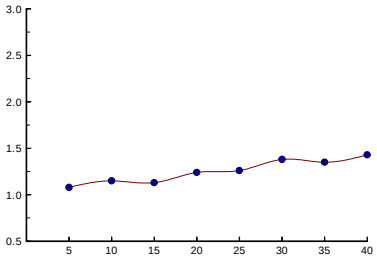
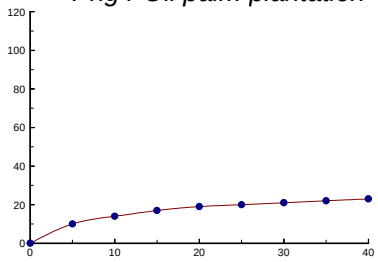
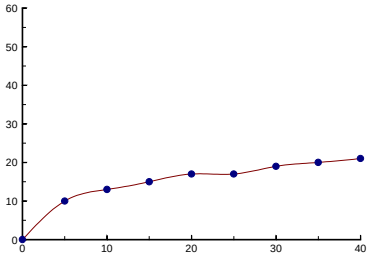
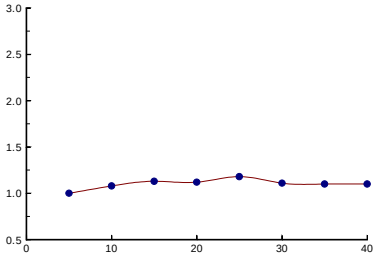
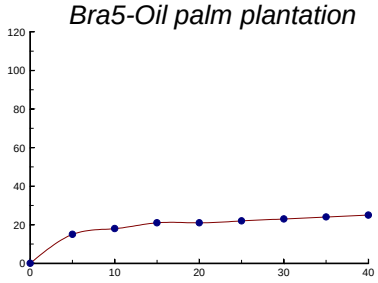
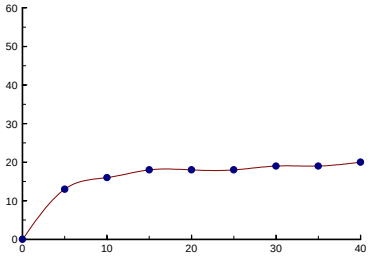
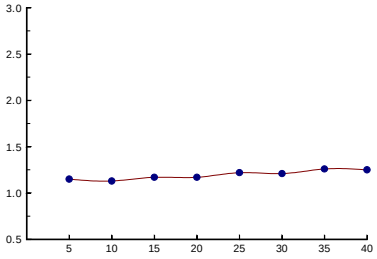
4. Agroforests

Species	Modi	Spp/Modi
BS10-Jungle rubber 		
Cam10-Jungle Cocoa 		

ANNEX I

Figure 1. Continue …

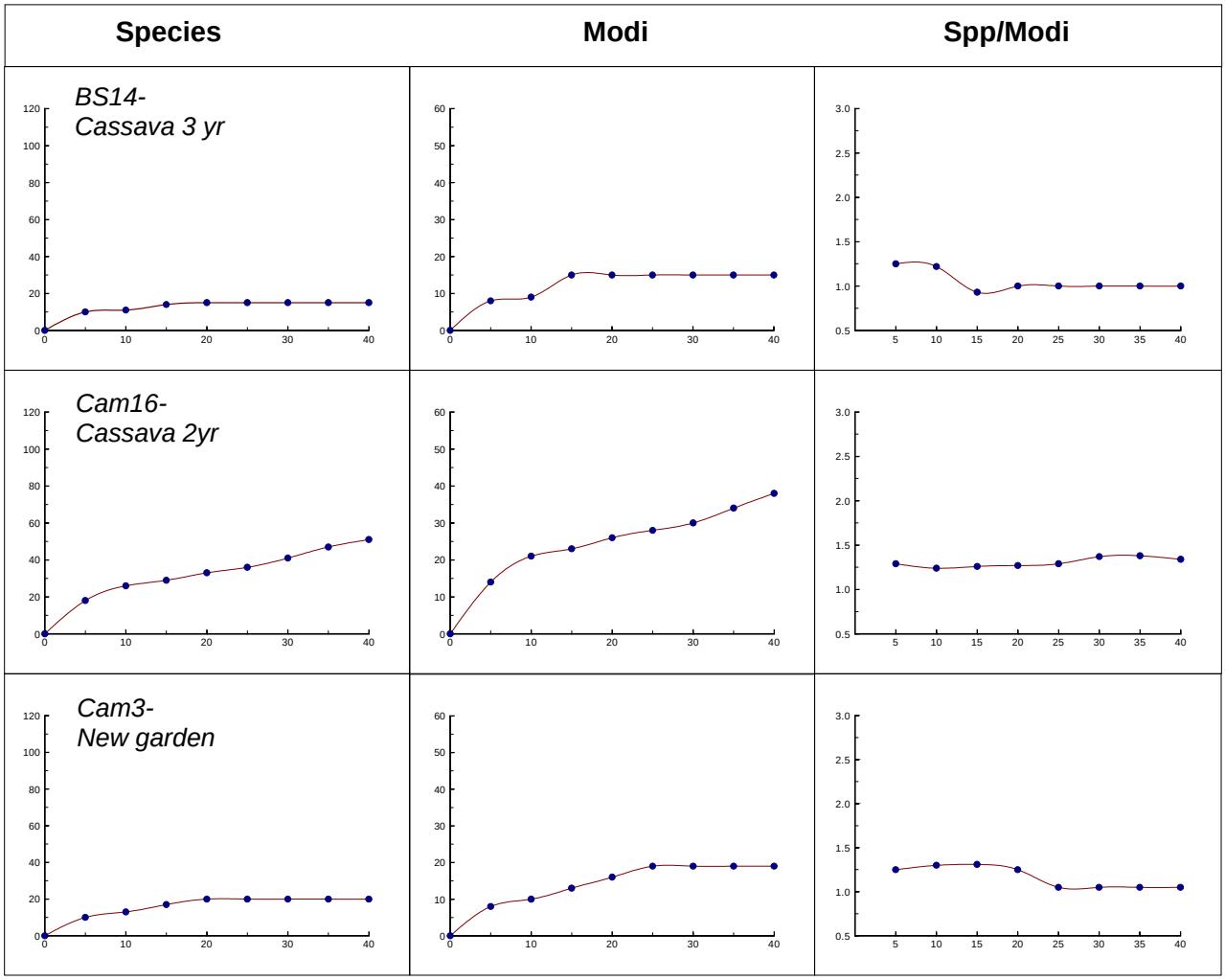
5. Plantation

Species	Modi	Spp/Modi
BS8-Rubber plantation 		
BS7-Paraserianthes plantation 		
Cam15-Cocoa plantation 		
Png4-Oil palm plantation 		
Bra5-Oil palm plantation 		

ANNEX I

Figure 1. Continue …

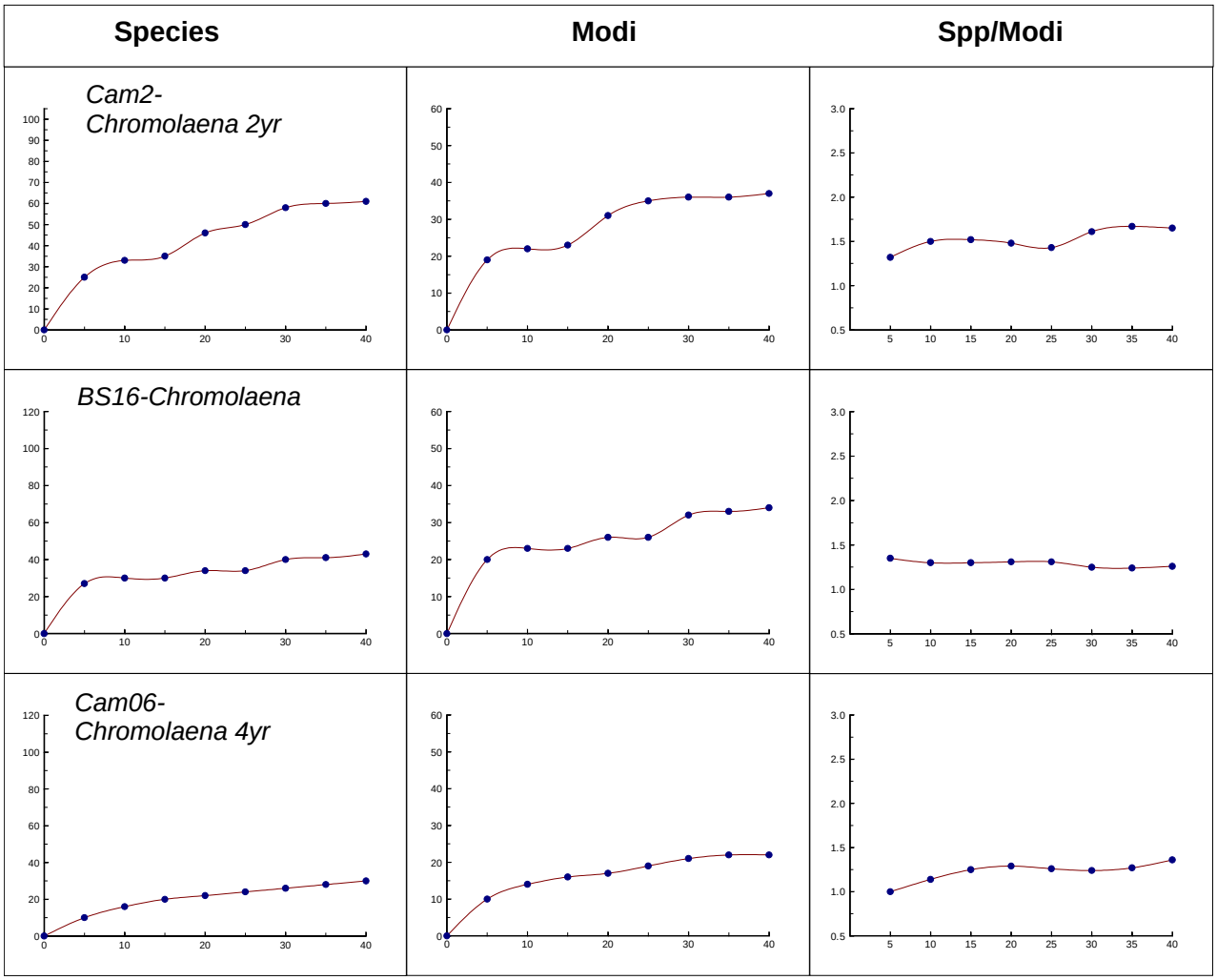
6. Cassava



ANNEX I

Figure 1. Continue …

7. Fallow



ANNEX I

Table 1. Site description for studies of patterns of richness in vascular plant species and plant functional types *(MODI)* along a gradient of land use types in lowland, tropical forested lands.

Land Use Type	Georeference	Plot Title	Description
1. Intact Rain Forest	01° 04' 55" S 102° 06' 05" E	BS05 : Closed rain forest	Unlogged, pristine lowland tropical rain forest, Pasir Mayang, Jambi, Sumatra, Jambi Biodiversity Baseline study plot
	05° 38' 46" S 150° 06' 14" E	PNG02 : Closed rain forest	Unlogged foothill forest near Kimbe, West New Britain, Papua New Guinea.
	02° 35' 21" N 60° 01' 55" E	Bra24 : Campina forest on white sand	Low forest on very low nutrient sands near Manaus, Brazil.
2. Secondary Forest	01° 04' 43" S 102° 05' 55" E	BS03 : Secondary forest	Old log dump within logged-over forest. very patchy, impacted soil. Jambi Baseline Study plot, Pasir Mayang
	03° 36' 05" N 11° 36' 15" E	Cam01 : Secondary forest	Logged over 15 years ago.Awae village, Cameroon.ASB plot
	05° 31' 23" S 150° 04' 32" E	PNG01: Secondary forest	Logged over 13 years ago. Kimbe district, West New Britain, Papua New Guinea.
	04° 11' 23" N 39° 25' 34" E	Kny01: S. Decid. forest	Logged over, semi-deciduous forest, Shimba game reserve, near Mombasa, Kenya. Elephant grazing.
3. Savannas	01° 35' 58" S 102° 21' 11" E	BS12 : *Imperata* savanna	*Imperata* savanna (6 years old after Cassava), Kuamang Kuning, Jambi Baseline Study plot.

ANNEX I

Table 1. Site description for studies of patterns of richness in vascular plant species and plant functional types *(MODI)* along a gradient of land use types in lowland, tropical forested lands.

	Georeference	Plot Title	Description
	05° 02' 40" N 10° 42' 04" E	Cam17 : *Hyparrhenia*, wooodland savanna	Stable savanna, Makam III, Cameroon. ASB plot.
	18° 48' 26" N 48° 43' 29'' E	Mad02 : Palm savanna	*Ravenala madagascariensis*. dominated degraded, savanna, Saham Pinga, Madagascar
	38° 53' 29" N 78° 09' 05" W	SIMAB04 : Savanna	Savanna 'meadow', Smithsonian research station, Front Royal Virginia, USA.
	**	Bra22 : Cerrado woodland savanna	Cerrado, seasonal woodland savanna; Jardin Botanico, near Brasilia, Brasil
4. Agroforests	01° 10' 12" S 102° 06' 50" E	BS10 : Jungle rubber	Rubber trees grown in forest environment (14 years), Jambi Baseline study plot
	02° 34' 37" N 11° 01' 29" E	Cam10 : Jungle Cocoa	*Cacao* plantation grown in forest environment. Mengomo, Ebolowa station, Cameroon ASB plot.
5. Plantations	01° 05' 25" S 102° 07' 05" E	BS08 : Rubber plantation	Rubber (*Hevea*) plantation (8yr). Pasir Mayang, Jambi Baseline Study plot.
	01° 03' 09" S 102° 08' 10" E	BS07: *Paraserianthe*s softwood plantation	Softwood plantation (3yr). Pasir Mayang (Barito Pacific logging concession). Jambi Baseline Study plot.

ANNEX I

Table 1. Site description for studies of patterns of richness in vascular plant species and plant functional types *(MODI)* along a gradient of land use types in lowland, tropical forested lands.

Land Use Type	Georeference	Plot Title	Description
	05° 26' 40" S 150° 05' 07" E	PNG04 : Oil Palm plantation	Oil palm plantation (18yr). Walindi, Kimbe district, West New Britain, Papua New Guinea.
	02° 53' 34" S 59° 58' 21" W	Bra25 : Oil Palm plantation	Oil palm plantation (?16yr). EMBRAPA CPAF Research Station, Manaus, Brazil.
	02° 43' 12" N 11° 16' 58" E	Cam15 : Cacao plantation	Cacao plantation (30yr). Akok village, Cameroon ASB plot.
6. Subsistence garden	03° 36' 05" N 11° 36' 15" E	Cam03 : New garden	New subsistence garden (groundnut, Cassava etc) Awae village, Cameroon. ASB plot
	01° 36' 05" S 102° 21' 22"' E	BS14 : Cassava	Cassava garden (?>3 yr), Kuamang Kuning village, Jambi Baseline Study plot
	04° 48' 58" N 11° 10' 27" E	Cam16 : Cassava	Cassava garden (2yr). Bafia (savanna). Cameroon. ASB plot
7. Fallows	03° 36' 05" N 11° 36' 15" E	Cam02 : *Chromolaena*	*Chromolaena* dominated fallow (2 yr). Awae village, Cameroon. ASB plot
	01° 10' 13" S 102° 06' 58" E	BS16 : *Chromolaena*	*Chromolaena* and *Clibadium* dominated 3 year fallow. Pancoran Gading village. Jambi Baseline Study plot
	03° 55' 31" N 11° 35' 49" E	Cam06 : *Chromolaena*	*Chromolaena* (4 yr). Nkolfulu. Cameroon. ASB plot

ANNEX I

Figure 2
Above-ground Carbon and Biodiversity
All benchmark sites (ASB Phase II Report, 1998)

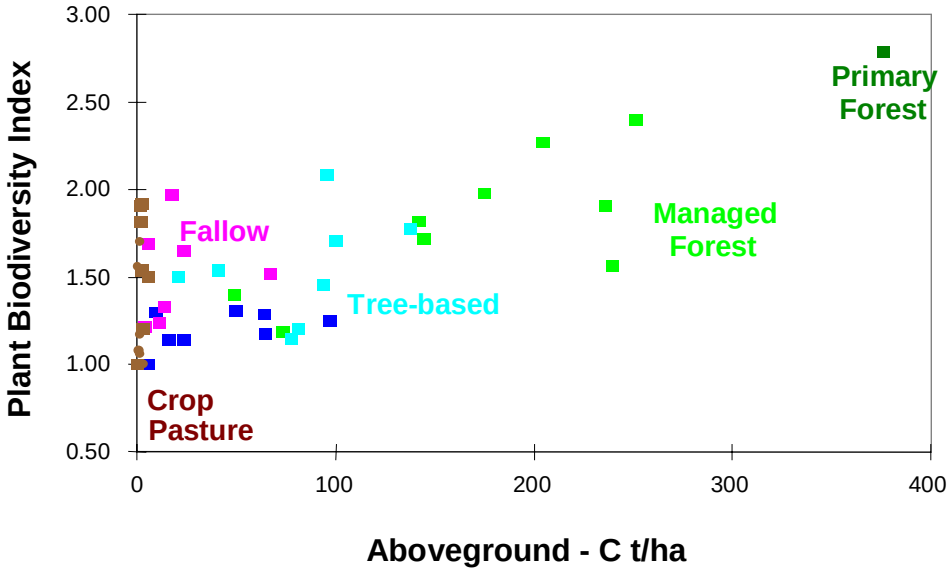


Figure 3
Patterns of richness in plant species and functional types under different land use systems
Indonesia : Jambi - Lampung

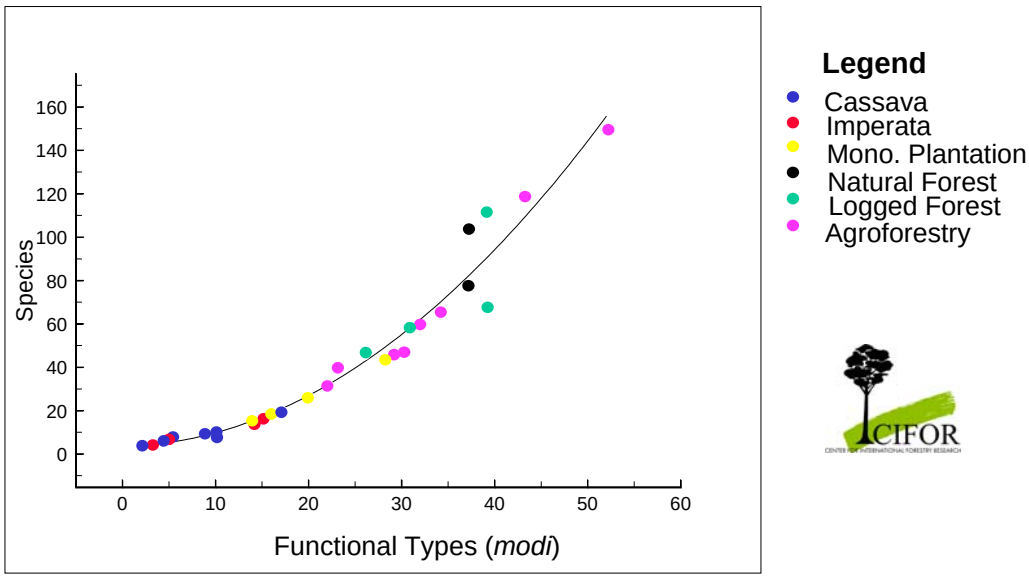


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Figure 4

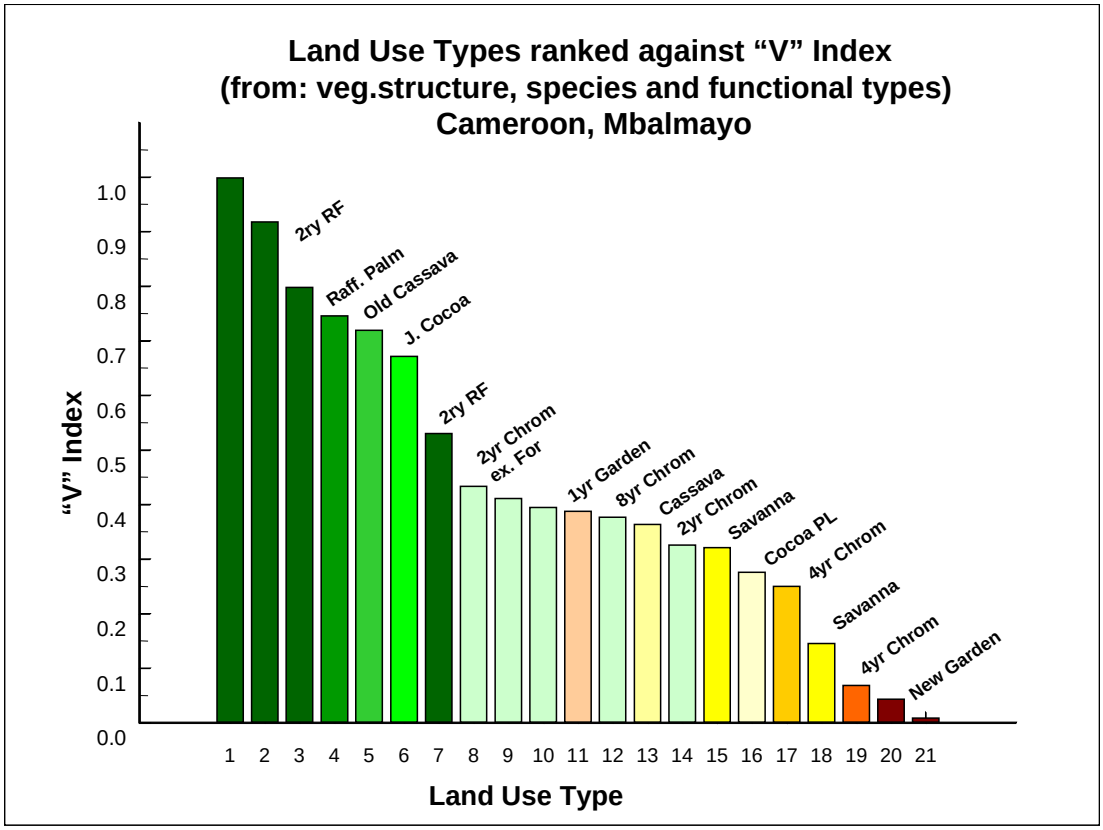

Figure 5

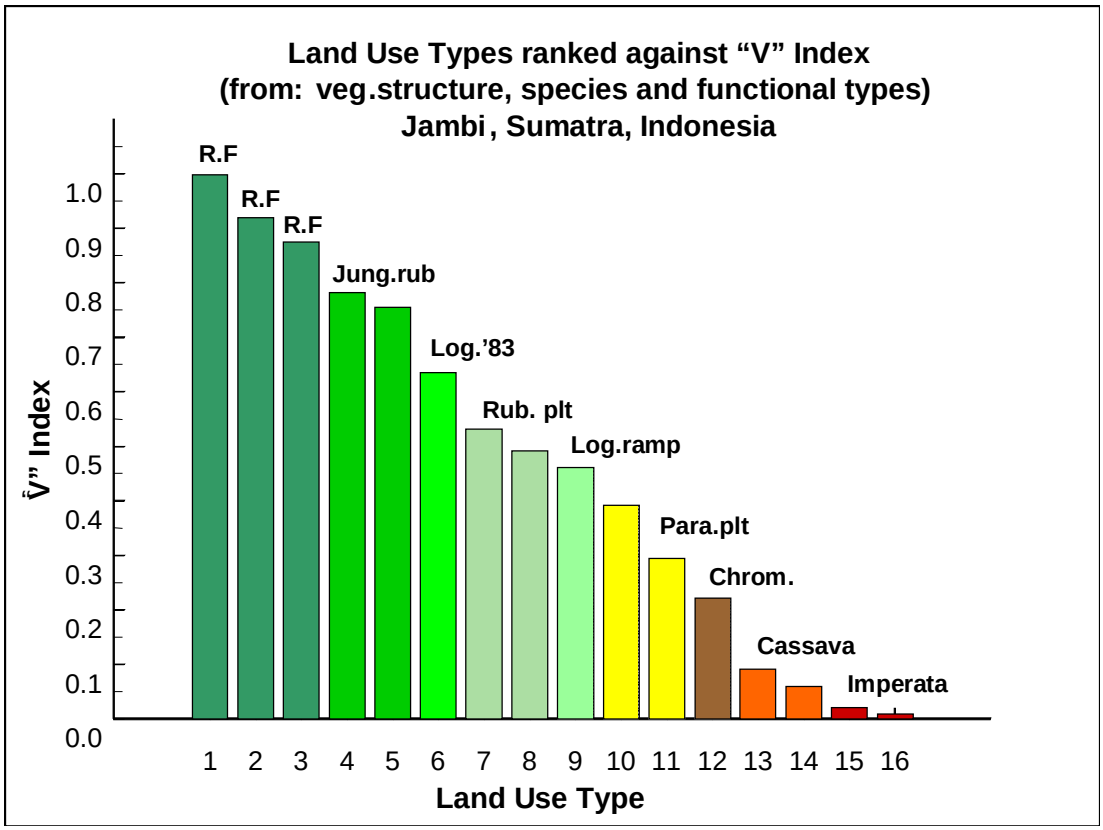

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Figure 6

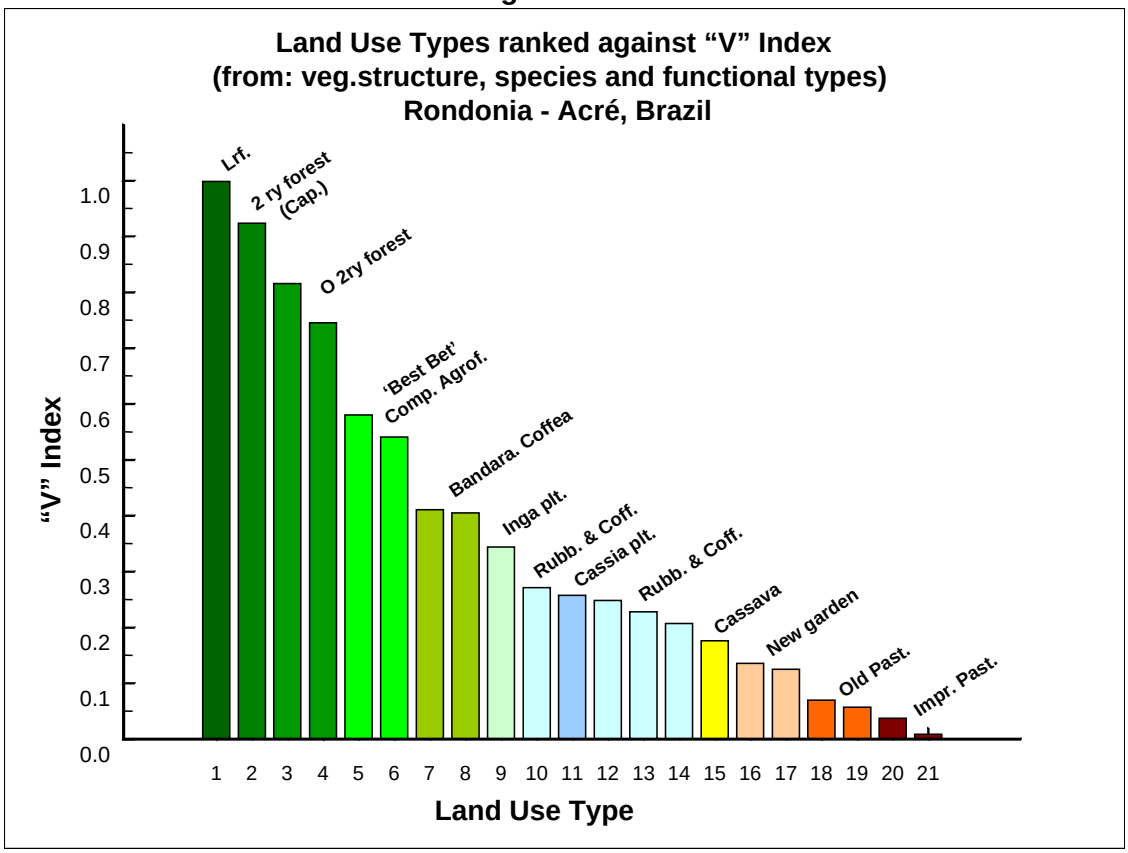

Figure 7

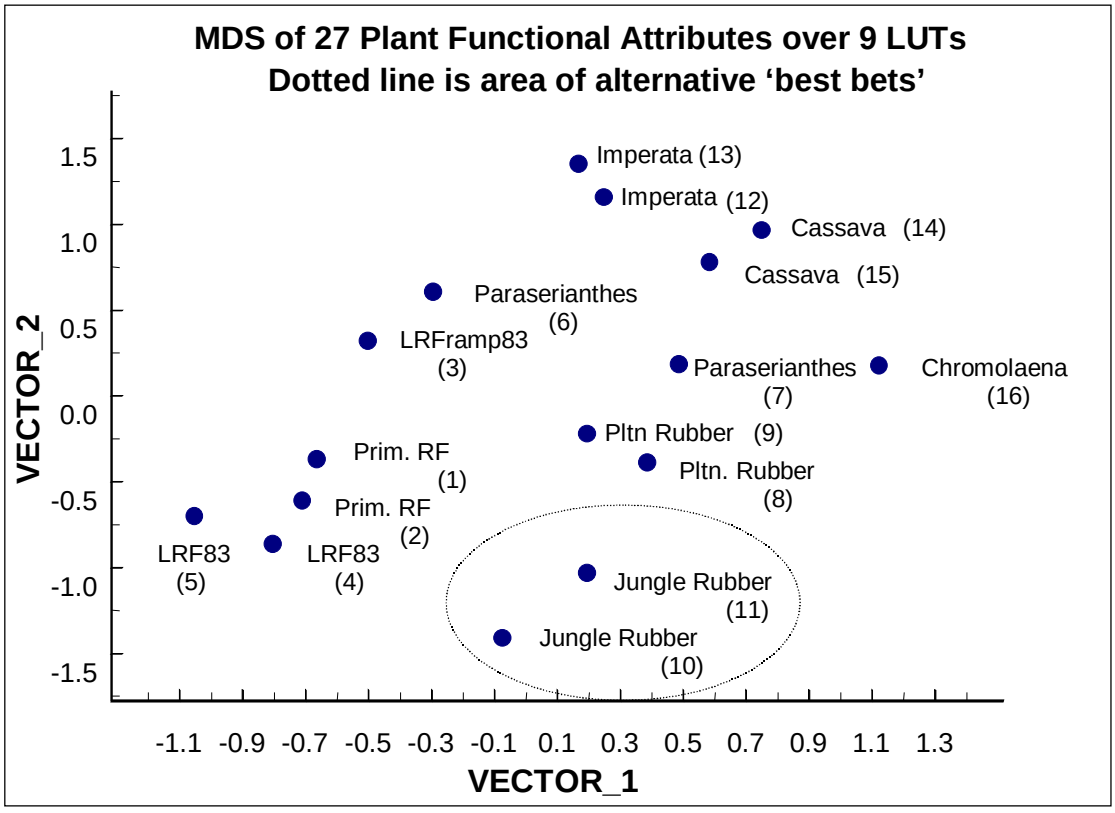

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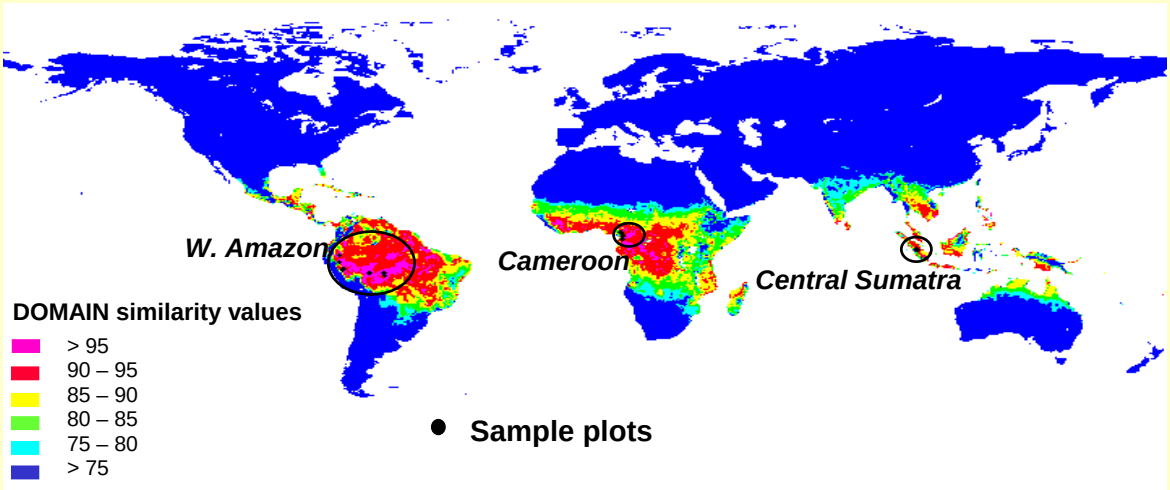
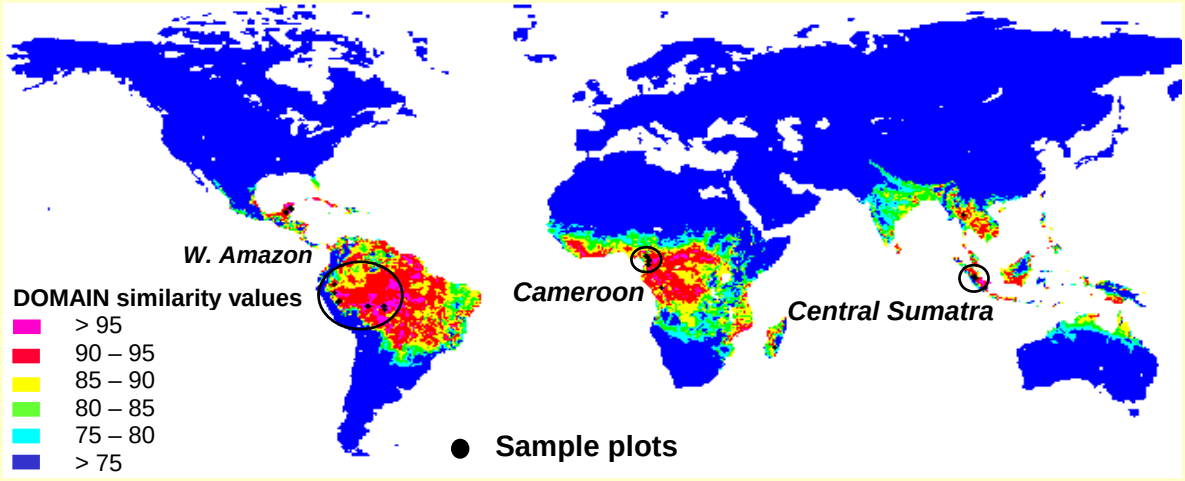
Figure 8
Global environmental representativeness of 108 ASB sites in Western Amazon, Indonesia and Cameroon



(DOMAIN; 0.5 deg resolution)
The DOMAIN similarity values based on Elevation; Potential evapotranspiration; Total annual precipitation; Precip driest month; Precipitation range; Minimum average monthly temperature; Maximum average monthly temperature.

Figure 9
Global environmental representativeness of 117 ASB sites in Western Amazon, Yucatan, Indonesia, plus Thailand and Madagascar



(DOMAIN; 0.5 deg resolution)
The DOMAIN similarity values based on Elevation; Evapotranspiration; Annual precipitation; Precip driest month; Mean temperature; Minimum average monthly temperature.

ANNEX I

Table 2. Sample Plot Location ASB Above Ground Biodiversity, *INDONESIA (Jambi and Lampung)*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev'n	Vegetation
1	ASBJAM1	Pasir Mayang Biotrop site	Indonesia	18/01/97	01 04 47 S	102 06 02 E	76	Intact Rain forest
2	ASBJAM2	Pasir Mayang Biotrop site	Indonesia	18/01/97	01 04 53 S	102 06 09 E	76	LOA 79/80 (Secondary forest)
3	ASBJAM3	Pasir Mayang Biotrop site	Indonesia	19/01/97	01 04 59 S	102 06 43 E	65	*Paraserianthes* plantation forest
4	ASBJAM4	Rantau Pandan (N. Park)	Indonesia	23/03/97	01 40 01 S	101 56 04 E	150	Primary forest
5	ASBJAM5	Rantau Pandan	Indonesia	23/03/97	01 39 47 S	101 56 34 E	140	Rubber jungle
6	ASBJAM6	Muara Kuamang	Indonesia	20/01/97	01 39 47 S	101 56 34 E	140	Rubber forest
7	ASBJAM7	Muara Kuamang	Indonesia	21/11/97	01 34 59 S	102 16 20 E	140	Secondary rain forest
8	ASBJAM8	Desa B. Harjo, Muara Kuamang	Indonesia	13/11/97	01 35 30 S	102 18 28 E	140	Cassava plantation
9	ASBJAM9	Purwosari, Muara Bungo	Indonesia	13/11/97	01 35 59 S	102 21 11 E	140	Imperata savanna
10	ASBJAM10	Purwosari, Muara Bungo	Indonesia	13/11/97	01 35 55 S	102 21 11 E	140	Imperata grass land / alang (short)
11	ASBJAM11	Sungai Tilan, T.Tengah, B. Tebo	Indonesia	13/11/97	01 33 15 S	102 23 26 E	140	Agroforestry rubber plantation
12	ASBJAM13	Sylvagama, Muara Tebo	Indonesia	14/11/97	01 32 96 S	102 25 49 E	140	Secondary forest
13	ASBJAM14	Sylvagama, Muara Tebo	Indonesia	14/11/97	01 36 22 S	102 20 54 E	140	Cassava plantation
14	ASBJAM15	Sylvagama, Muara Tebo	Indonesia	14/11/97	01 31 51 S	102 22 37 E	140	Jungle Rubber
15	ASBLAM01	ICRAF site at BMSF Lampung	Indonesia	13/09/97	04 30 32 S	104 55 29 E	100	Natural Forest
16	ASBLAM02	Negara Jaya, ICRAF site	Indonesia	11/09/97	04 27 17 S	104 55 26 E	100	Cassava plantation
17	ASBLAM03	Negara Jaya, ICRAF site	Indonesia	11/09/97	04 27 36 S	104 55 28 E	100	Imperata savanna
18	ASBLAM04	Negara Jaya, ICRAF site	Indonesia	11/09/97	04 27 29 S	104 55 27 E	100	Oil palm
19	ASBLAM05	Kaliawi Indah, ICRAF site	Indonesia	12/09/97	04 26 08 S	104 58 52 E	100	Secondary forest
20	ASBLAM06	Kaliawi Indah, ICRAF site	Indonesia	12/09/97	04 26 08 S	104 58 52 E	100	*Paraserianthes falcataria* plantation
21	ASBLAM07	Tegal Mukti, ICRAF site	Indonesia	12/09/97	04 27 21 S	105 00 53 E	100	Cassava plantation
22	ASBLAM08	Kaliawi Indah, ICRAF site	Indonesia	12/09/97	04 26 42 S	104 59 27 E	100	Imperata savanna
23	ASBLAM09	Panaragan, ICRAF site	Indonesia	12/09/97	04 29 08 S	105 02 11 E	100	Fruit Agroforestry
24	ASBLAM10	Panaragan, ICRAF site	Indonesia	13/09/97	04 28 22 S	105 02 34 E	100	Cassava plantation
25	ASBLAM11	Panaragan Indah, ICRAF site	Indonesia	13/09/97	04 27 43 S	105 02 00 E	100	Imperata

ANNEX 1

Table 2. Sample Plot Location ASB Above Ground Biodiversity, *INDONESIA (Jambi and Lampung)*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev'n	Vegetation
26	ASBLAM12	Panaragan, ICRAF site	Indonesia	12/09/97	04 27 38 S	105 01 46 E	100	Friut trees
27	ASBLAM13	Panaragan, ICRAF site	Indonesia	12/09/97	04 28 22 S	015 03 13 E	100	Rubber, Banana
28	ASBLAM14	Panaragan, ICRAF site	Indonesia	13/09/97	04 28 26 S	105 02 36 E	100	Secondary forest
29	ASBLAM15	Panaragan, ICRAF site	Indonesia	12/09/97	04 28 33 S	105 03 50 E	100	Rubber plantation
30	ASBLAM16	Tegal Mukti, ICRAF site	Indonesia	12/09/97	04 27 21 S	105 00 53 E	100	Imperata savanna
31	ASBJBS01	Pasir Mayang	Indonesia	18/01/97	01 04 47 S	102 06 02 E	76	Intact rain forest
32	ASBJBS02	Pasir Mayang	Indonesia	20/11/97	01 04 45 S	102 05 53 E	60	Intact rain forest
33	ASBJBS03	Pasir Mayang	Indonesia	20/11/97	01 04 43 S	102 05 55 E	85	Secondary after logging 1984
36	ASBJBS04	Pasir Mayang	Indonesia	18/01/97	01 04 53 S	102 06 09 E	90	LOA 79/80 (Secondary forest)
37	ASBJBS05	Pasir Mayang	Indonesia	26/11/97	01 04 56 S	102 06 05 E	75	Logged over forest
38	ASBJBS06	Pasir Mayang	Indonesia	19/01/97	01 04 59 S	102 06 43 E	65	Paraserianthes plantation forest
39	ASBJBS07	Pasir Mayang	Indonesia	21/11/97	01 03 09 S	102 08 10 E	55	Paraserianthes plantation (3.5 years)
40	ASBJBS08	Pasir Mayang	Indonesia	27/11/97	01 05 25 S	102 07 05 E	53	Rubber plantation
41	ASBJBS09	Pasir Mayang	Indonesia	27/11/97	01 05 27 S	102 06 56 E	53	Rubber plantation
42	ASBJBS10	Pancuran Gading	Indonesia	22/11/97	01 10 12 S	102 06 50 E	30	Jungle rubber
43	ASBJBS11	Pancuran Gading	Indonesia	25/11/97	01 10 13 S	102 06 46 E	30	Jungle rubber
44	ASBJBS12	Kuamang Kuning	Indonesia	24/11/97	01 35 58 S	102 21 11 E	40	Imperata
45	ASBJBS13	Kuamang Kuning	Indonesia	24/11/97	01 35 56 S	102 21 12 E	40	Imperata
46	ASBJBS14	Kuamang Kuning	Indonesia	24/11/97	01 36 05 S	102 21 22 E	48	Cassava Plantation
47	ASBJBS15	Kuamang Kuning	Indonesia	24/11/97	01 36 05 S	102 21 21 E	48	Cassava plantation
48	ASBJBS16	Pancuran Gading	Indonesia	25/11/97	01 10 13 S	102 06 58 E	30	*Chromolaena dibadium* regrowth

ANNEX I

Table 2. Sample Plot Location ASB Above Ground Biodiversity, *BRAZIL*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev'n	Vegetation
1	BRA001	Ji Parana, Rondonia	Brazil	15/4/97	10-55-23 S	61-57-25 W	230	Rubber and Coffee plantation
2	BRA002	Ji Parana, Rondonia	Brazil	15/4/97	10-55-23 S	61-57-25 W	230	Rubber and Coffee plantation
3	BRA003	Ji Parana, Rondonia	Brazil	15/4/97	10-55-14 S	61-58-27 W	225	Brachyaria pasture
4	BRA004	Ji Parana, Rondonia	Brazil	15/4/97	10-55-14 S	61-58-24 W	225	Brachyaria pasture
5	BRA005	Ji Parana, Sr J. do Cominhas	Brazil	15/4/97	10-58-30 S	62-00-58 W	265	Plantation -agroforest (Schizolobium & Coffee)
6	BRA006	Ji Parana, Sr J. do Cominhas	Brazil	15/4/97	10-58-30 S	62-00-58 W	265	Plantation - agroforest (Schizolobium & Coffee)
7	BRA007	Theobroma, Rondonia,	Brazil	16/4/97	10-06-18 S	62-11-40 W	230	Cassava plantation
8	BRA008	Theobroma, Rondonia,	Brazil	16/4/97	10-06-12 S	62-11-40 W	230	Inga edulis plantation
9	BRA009	Theobroma, Rondonia,	Brazil	16/4/97	10-06-12 S	62-11-40 W	230	Cassia siamea plantation
10	BRA010	Theobroma, Rondonia	Brazil	16/4/97	10-06-40 S	62-11-58 W	242	Rubber & Coffee plantation
11	BRA011	Theobroma, Rondonia	Brazil	16/4/97	10-06-40 S	62-11-58 W	240	Rubber & Coffee plantation
12	BRA012	Theobroma, Rondonia	Brazil	16/4/97	10-13-03 S	62-23-49 W	252	Disturbed vine forest
13	BRA013	Reca, Rondonia	Brazil	17/4/97	09-46-48 S	66-37-44 W	287	Cupuacu and Bactris plantation
14	BRA014	Reca, Rondonia	Brazil	17/4/97	09-46-48 S	66-37-44 W	287	Mixed agroforestry pltn; Cupuacu/Bactris/Bra. nut
15	BRA015	Reca, Rondonia	Brazil	17/4/97	09-46-48 S	66-37-43 W	232	New subsistence garden (Slash & Burn)
16	BRA016	Reca, Rondonia	Brazil	17/4/97	09-46-48 S	66-37-43 W	232	New subsistence garden, (Slash & Burn)
17	BRA017	Pedro Peixoto, Acre	Brazil	18/4/97	10-01-13 S	67-09-39 W	271	Moderately disturbed rain forest
18	BRA018	Pedro Peixoto, Acre	Brazil	18/4/97	10-01-13 S	67-09-39 W	295	Secondary forest - (Capoeira)
19	BRA019	Pedro Peixoto, Acre	Brazil	18/4/97	10-01-13 S	67-09-39 W	295	Secondary forest - (Capoeira)
20	BRA020	Pedro Peixoto, Acre	Brazil	18/4/97	10-01-03 S	67-09-27 W	316	Old Pasture
21	BRA021	Pedro Peixoto, Acre	Brazil	18/4/97	10-01-03 S	67-09-27 W	316	Old pasture

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Table 2. Sample Plot Location ASB Above Ground Biodiversity, *CAMEROON*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev'n	Vegetation
1	Camasb01	Cameroon, Awae village	Cameroon	30/5/97	03-36-05 N	11-36-15 E	657	Secondary rain forest
2	Camasb02	Cameroon, Awae village	Cameroon	30/5/97	03-36-05 N	11-36-15 E	657	Chromolaena fallow
3	Camasb03	Cameroon, Awae village	Cameroon	30/5/97	03-36-05 N	11-36-15 E	657	New subsistence garden, slash & burn
4	Camasb04	Cameroon, Awae village	Cameroon	30/5/97	03-36-05 N	11-36-15 E	657	8-10 Year Chromolaena fallow
5	Camasb05	Nkol Foulu village	Cameroon	2/6/97	03-55-31 N	11-35-49 E	696	Secondary rain forest
6	Camasb06	Nkol Foulu village	Cameroon	2/6/97	03-55-34 N	11-35-49 E	696	4 Year Chromolaena fallow
7	Camasb07	Nkol-fulu Mefou & Afamba	Cameroon	2/6/97	03-55-34 N	11-35-49 W	696	New cultivation Egusi, Melon
8	Camasb08	Mengomo (Ebolowa-Station)	Cameroon	2/6/97	02-34-45 S	07-02-05 W	554	Secondary forest
9	Camasb09	Mengomo (Ebolowo-Station)	Cameroon	3/6/97	02-34-37 S	11-01-29 W	576	2 years Chromolaena fallow
10	Camasb10	Mengomo (Ebolowa-Station)	Cameroon	3/6/97	02-34-37 S	11-01-29 W	576	Cocoa plantation non maintained
11	Camasb11	Akok (Ebolowa-Station)	Cameroon	4/6/97	02-42-45 S	11-16-42 W	554	2 year Chromolaena fallow
12	Camasb12	Akok (Ebolowa-Station)	Cameroon	4/6/97	02-42-27 S	11-16-90 W	554	1 year garden
13	Camasb13	Akok (Ebolowa-Station)	Cameroon	4/6/97	02-43-08 S	11-17-05 W	585	Chromolaena fallow
14	Camasb14	Akok (Ebolowa-Station)	Cameroon	4/6/97	02-43-12 S	11-16-58 W	585	2 year Chromolaena fallow
15	Camasb16	Bape (20km after BAFIA)	Cameroon	5/6/97	04-48-58 S	11-10-27 W	560	1 year Cassava field
16	Camasb17	Makam III (Batoum II)	Cameroon	5/6/97	05-02-40 S	10-42-04 W	977	humid savanna
17	Camasb18	Nkometou II	Cameroon	5/6/97	04-04-51 S	11-33-17 W	596	1 year Chromolaena fallow
18	Camasb15	Akok (Ebolowa-Station)	Cameroon	4/6/97	04-04-51 S	11-33-17 W	559	Cocoa Plantation
19	Camasb19	Bafia (Near Camasb16)	Cameroon	27/8/96	04 48 56 N	11 10 25 E	640	Shrub savanna
20	Camasb20	Mbalmayo Bilik, Nkolitan	Cameroon	28/8/96	03 28 21 N	11 29 25 E	635	Raffia palm swamp
21	Camasb21	Akok 'Enuzam'	Cameroon	28/8/96	02 42 45 N	11 16 45 E	550	Old secondary forest

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Table 2. Sample Plot Location ASB Above Ground Biodiversity, *PERU*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev'n	Vegetation
1	PUC001	Von Humboldt National Park	Peru	22/4/97	08-48-01 S	75-03-54 W	246	Disturbed tropical lowland rain forest
2	PUC002	Umberto Romero, Km72, Pucallpa	Peru	22/4/97	08-43-22 S	75-00-32 W	294	Improved pasture
3	PUC003	Campo Verde, Km 50 Cr Nueva Regina	Peru	24/4/97	08-26-01 S	74-49-15 W	210	Secondary forest
4	PUC004	Campo Verde, Km 50 Cr Nueva Regina	Peru	24/4/97	08-26-01 S	74-49-15 W	210	Secondary forest
5	PUC005	Sais Tupac, Km 10, Cr. Nueva Regina	Peru	24/4/97	08-23-10 S	74-50-24 W	244	20 year old pasture
6	PUC006	Sais Tupac, Km 10, Cr. Nueva Regina	Peru	24/4/97	08-23-10 S	74-50-24 w	244	Improved pasture
7	PUC007	Monte Los Olivos, Km 6 Cr. Curimana	Peru	25/4/97	08-35-47 S	74-59-42 W	214	One month old maize garden
8	PUC008	Monte Los Olivos, Km 6 Cr. Curimana	Peru	25/4/97	08-35-47 S	74-59-42 W	204	Maize garden
9	PUC009	Monte los Olivos	Peru	25/4/97	08-35-43 S	74-59-42 W	204	*Bachharis* fallow
10	PUC010	Monte los Olivos	Peru	25/4/97	08-35-47 S	74-59-42 W	244	*Pueraria* fallow
11	PUC011	Comite Palmeiras, Km46, Cr. Federico Basarde	Peru	25/4/97	08-34-40 S	74-52-25 W	244	Oil palm (*E. guineensis*) plantation
12	PUC012	Comite Palmeiras, Km46, Cr. Federica Basarde	Peru	25/4/97	08-34-39 S	74-52-22 W	242	Oil Palm Plantation
13	PUC013	Fundo Villa Delicia, Km42 Cr. Federico Basarde	Peru	25/4/97	08-31-29 S	74-51-58 W	250	Degraded natural pasture
14	PUC014	Fundo Villa Delicia, Km42 Cr. Federico Basarde	Peru	25/4/97	08-31-29 S	74-51-58 W	250	Natural pasture - degraded
15	PUC015	INIA Experimental Plots, Pucallpa	Peru	23/4/97	08-23-26 S	74-33-31 W	198	Agroforestry plot, mixed species

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Table 2. Sample Plot Location ASB Above Ground Biodiversity, *Yucatan, MEXICO*

No.	Plot No	Location	Country	Date	Latitude	Longitude	Elev	Vegetation
1	YUCO01	Cafetal Limones, Yucatan	Mexico	30/4/97	19-01-31 N	88-04-21 W	70	Secondary forest
2	YUCO02	Cafetal Limones, Yucatan	Mexico	30/4/97	19-02-26 N	88-03-20 W	30	Secondary forest (logged)
3	YUCO03	Cafetal Limones, Yucatan	Mexico	30/4/97	19-01-57 N	88-07-07 W	27	Citrus orchard
4	YUCO04	Laguna Cana, Yucatan	Mexico	1/5/97	19-27-58 N	88-24-41 W	54	High forest (Bosque alta)
5	YUCO05	Carillo Porto, Yucatan	Mexico	1/5/97	19-35-38 N	88-05-24 W	58	Secondary growth 1 year after garden
6	YUCO06	Ejido Nov 20, Yucatan	Mexico	2/5/97	18-06-04 N	89-18-26 W	219	Citrus - Pimentos orchard
7	YUCO07	Ejido Nov 20, Yucatan	Mexico	2/5/97	18-26-04 N	89-18-26 W	226	2 year regrowth after maize growth
8	YUCO08	Ejido Nov 20, Yucatan	Mexico	2/5/97	18-26-12 N	89-18-18 W	224	Cow pasture
9	YUCO09	Ejido Nov 20, Yucatan	Mexico	2/5/97	18-26-08 N	89-18-19 W	224	5 year regrowth

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ANNEX II

Figures 1 a, b, c, d

Comparative correlations of plant species, functional types (modi) and species / modi with above ground carbon and three animal taxa

Figure 1a.
Comparative relationships between above-ground carbon against: (A) Plant species richness, (B) Plant functional type richness, and (C) Species / modi ratios along a gradient of land use types, Jambi, Lowland Sumatra.

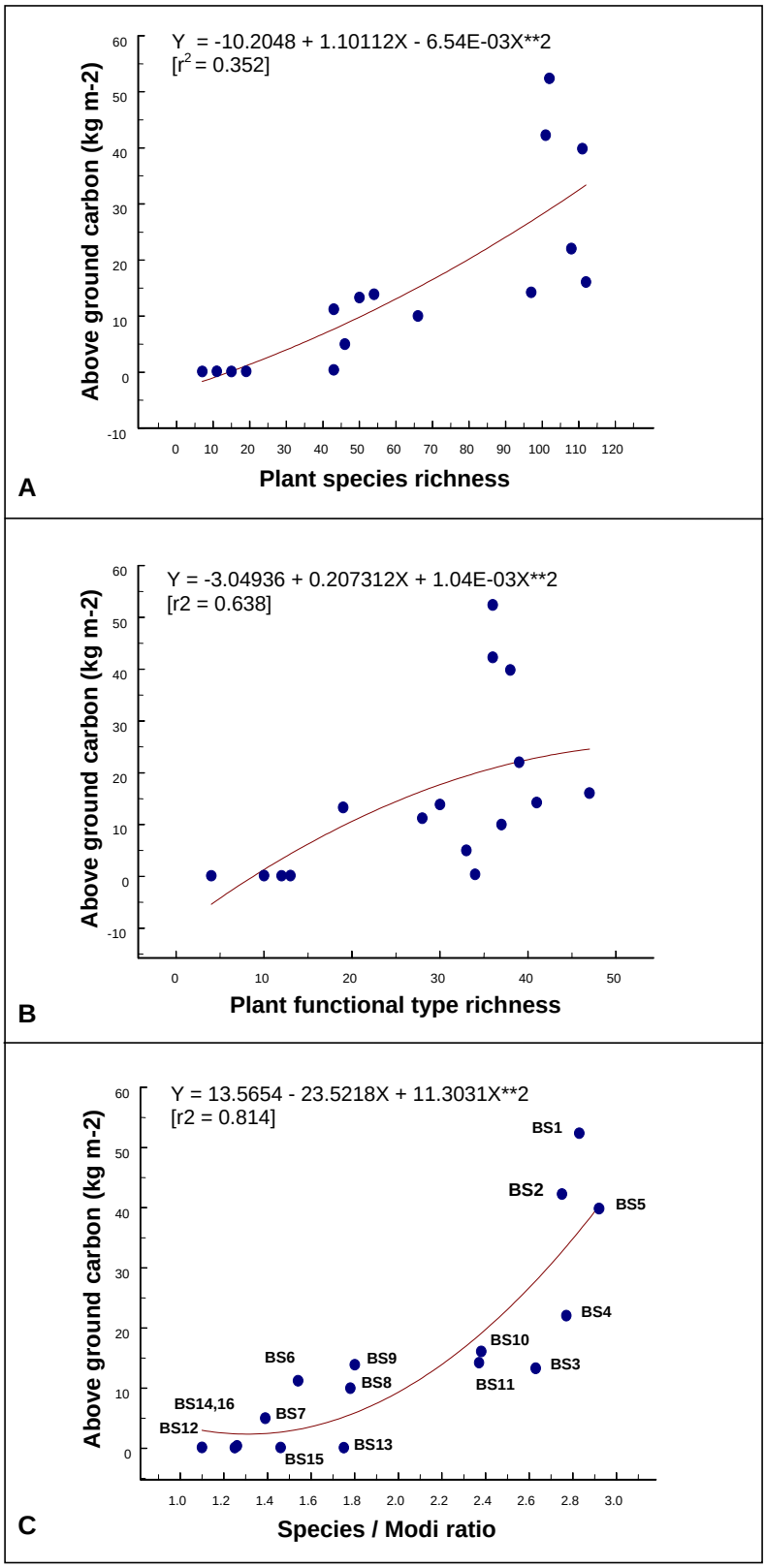


Figure 1b.
Comparative relationship between Collembola species richness against: (A) Plant species richness, (B) Plant functional type richness, and (C) Species / modi ratios along a gradient of land use types, Jambi, Lowland Sumatra

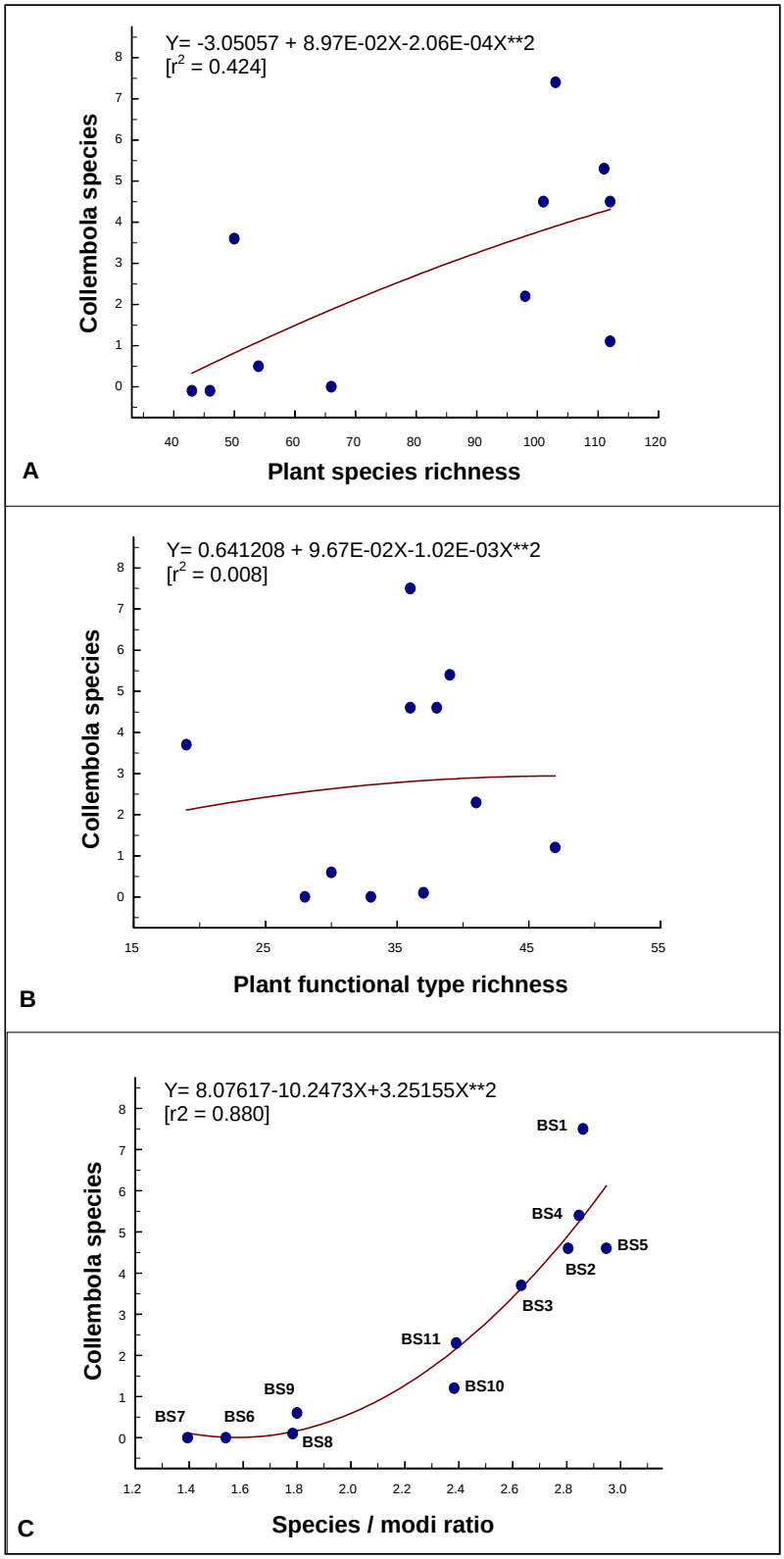


Figure 1c.
Comparative relationship between Termite species richness against: (A) Plant species richness, (B) Plant functional types richness, and (C) Species / modi ratios along a gradient of land use types, Jambi, Lowland Sumatra

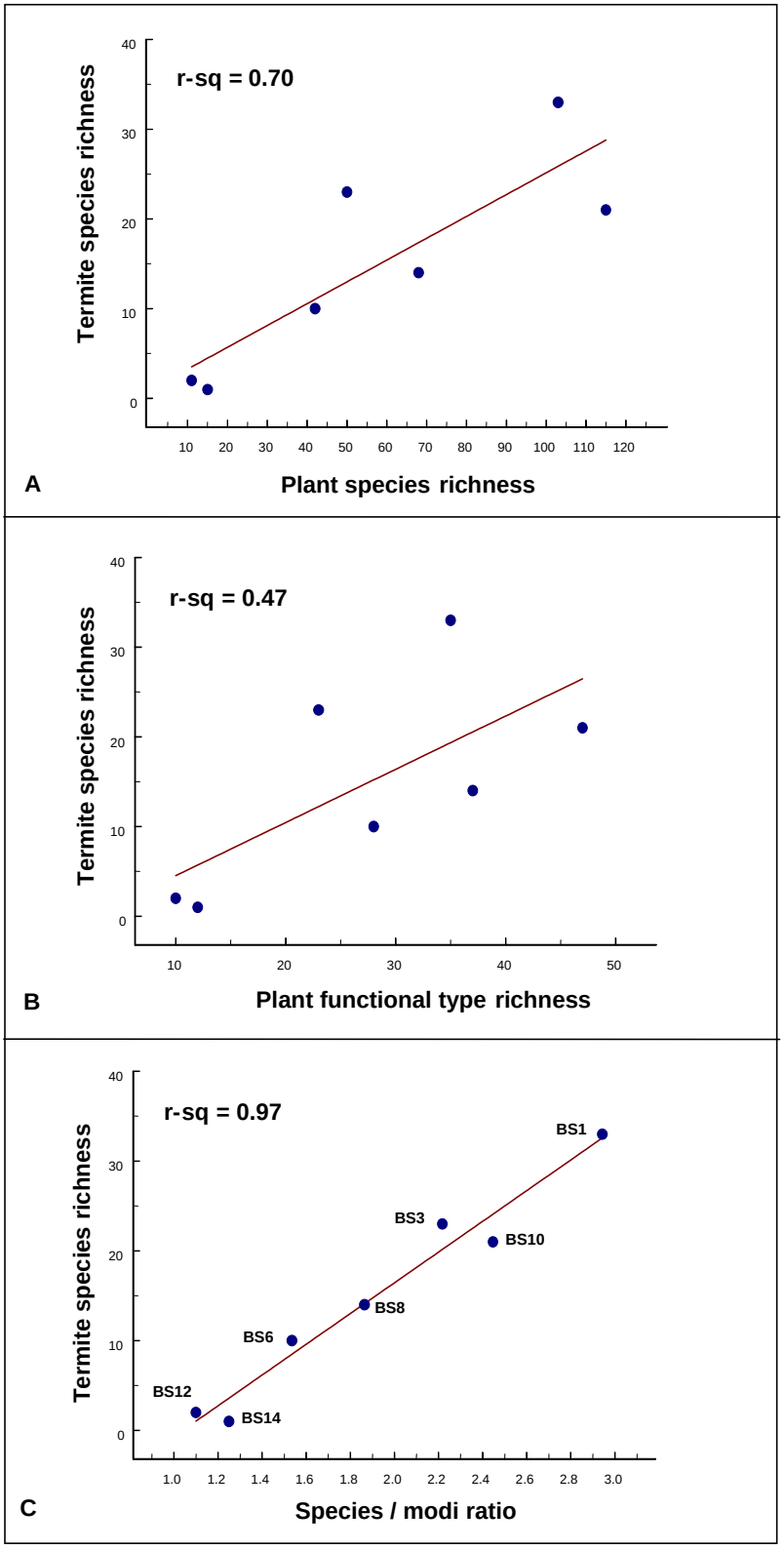
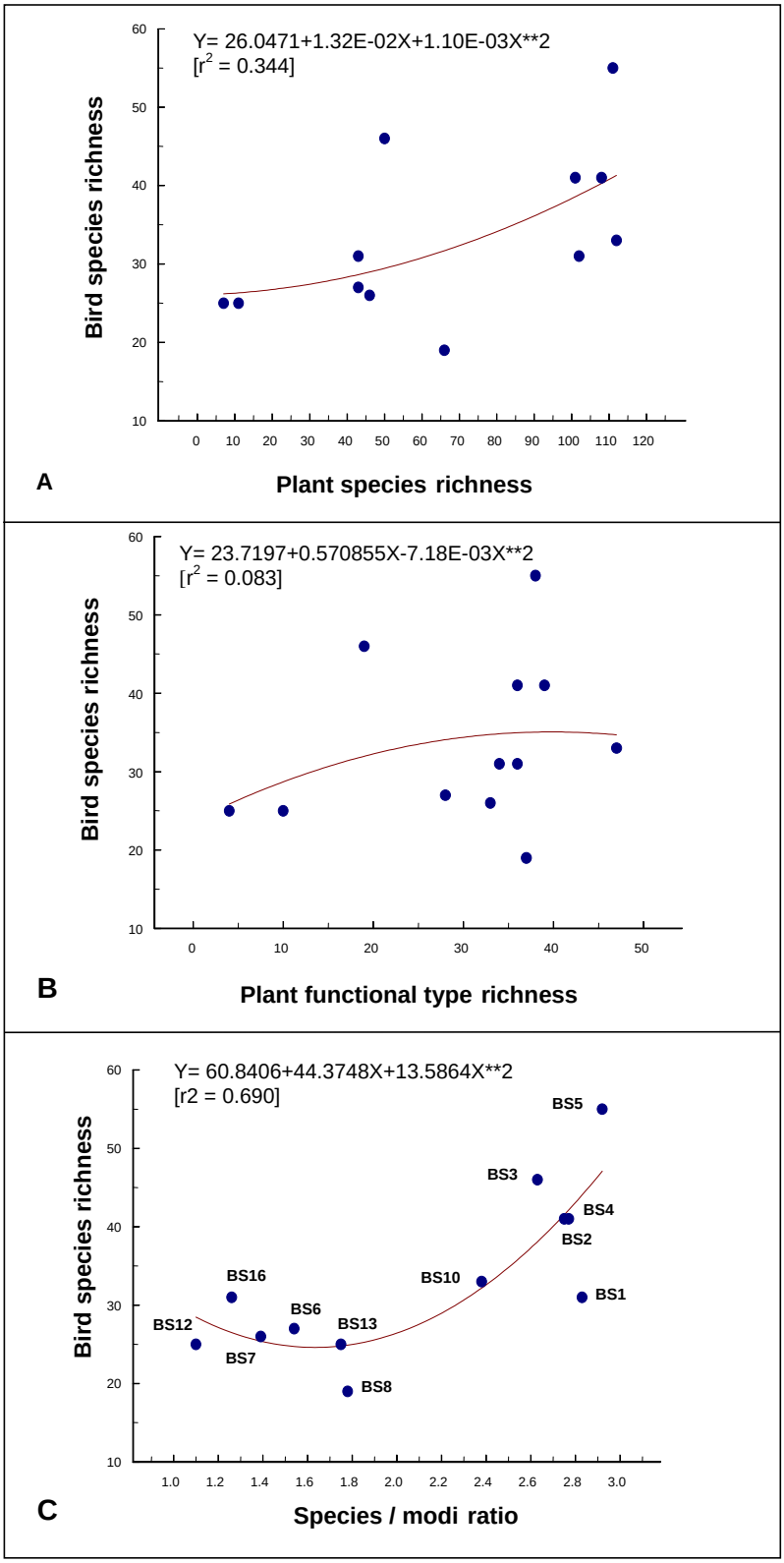


Figure 1d.
Comparative relationship between Bird species richness against: (A) Species richness, (B) Plant functional type richness, and (C) Species / modi ratio along a gradient of land use types, Jambi, Lowland Sumatra



ANNEX III: Benchmark site data

Table 1a. Site locations and physical features for Jambi Benchmark sites

NO.	SITE	LOCALITY	DATE	OBSERVERS	LAT	LONG	ELEV	SLP	ASP	SO_DEP	LTR	PA_ROCK	TERR	SOIL TYPE
1	BS01	Pasir Mayang	1/18/97	ANG/NL/I	01-04-47 S	102-06-02 E	76	25	7	> 100	10	Sedimentary	Upper slope	Sandy loam
2	BS02	Pasir Mayang	11/20/97	AG/NL/AR/SH/UR/EP	01-04-45 S	102-05-53 E	60	36	115	> 100	10	Sedimentary	Upper slope	Ultisol
3	BS03	Pasir Mayang	11/20/97	AG/NL	01-04-43 S	102-05-55 E	85	12	150	> 100	15	Sedimentary	Ridge top	Ultisol
4	BS04	Pasir Mayang	1/18/97	ANG/NL/I	01-04-53 S	102-06-09 E	0	45	130	> 100	6	Sedimentary	Mid slope	Clay loam
5	BS05	Pasir Mayang	11/26/97	AG/NL/EP/AF/SH	01-04-56 S	102-06-05 E	75	25	75	> 100	8	Sedimentary	Upper slope	Ultisol
6	BS06	Pasir Mayang	1/19/97	ANG/NL/I	01-04-59 S	102-06-43 E	65	20	202	> 100	3	Sedimentary	Upper slope	Clay loam
7	BS07	Pasir Mayang	11/21/97	AG/EP/Tini/S	01-03-09 S	102-08-10 E	55	12	202	>100	6	Sedimentary	Upper slope	Ultisol
8	BS08	Pasir Mayang	11/27/97	AG/EP/AF/SH	01-05-25 S	102-07-05 E	53	3	183	> 100	5	Sedimentary	Upper slope - ridge	Ultisol
9	BS09	Pasir Mayang	11/27/97	AG/EP/AF/SH	01-05-27 S	102-06-56 E	53	3	188	> 100	5	Sedimentary	Upper slope - ridge	Ultisol
10	BS10	Pancuran Gading	11/22/97	AG/EP/Tini/S	01-10-12 S	102-06-50 E	30	0	0	>100	8	Sedimentary	Flat	Ultisol
11	BS11	Pancuran Gading	11/25/97	AG/NL/EP/AF/SH	01-10-13 S	102-06-46 E	30	0	0	>100	6	Sedimentary	Flat	Ultisol
12	BS12	Kuamang Kuning	11/24/97	AG/NL/EP/SH/Tini	01-35-58 S	102-21-11 E	40	5	225	>100	0.1	Sedimentary	Ridge	Ultisol
13	BS13	Kuamang Kuning	11/24/97	AG/NL/EP	01-35-56 S	102-21-12 E	40	5	130	> 100	0.1	Sedimentary	Upper slope - ridge	Ultisol
14	BS14	Kuamang Kuning	11/24/97	AG/NL/EP/AF/SH	01-36-05 S	102-21-22 E	48	0	0	> 100	0.5	Sedimentary	Ridge	Ultisol
15	BS15	Kuamang Kuning	11/24/97	AG/NL	01-36-05 S	102-21-21 E	48	9	311	> 100	0.2	Sedimentary	Upper slope	Ultisol
16	BS16	Pancuran Gading	11/25/97	AG/NL/EP/AF/SH	01-10-13 S	102-06-58 E	30	0	0	> 100	4	Sedimentary	Flat	Ultisol

LAT: Latitude; LONG: Longitude; ELEV: Elevation; SLP: Slope; ASP: Aspect; SO_DEP: Soil Depth; LTR: Litter; PA_ROCK: Parent Rock; TERR: Terrain Unit

ANNEX III

Table 1b. Site locations and physical features for Jambi Benchmark sites

No.	Site	Vegetation	Mcan	Ccov	BA1	BA2	BA3	BA-AV	BRY	WP	fi1	fi2	fi3	fi4	fi5	fi6	fi7	fi8	fi9	fi10	fi11	fi12	fi13	fi14	fi15
1	BS01	Intact rain forest	21	75	26	28	28	27.33	2	7	15	10	20	0	15	30	0	10	0	15	20	20	50	10	5
2	BS02	Intact rain forest	20	65	32	32	34	32.67	5	5	5	30	5	5	5	5	0	20	5	0	25	30	0	0	30
3	BS03	Secondary after logging 1984	10	35	10	12	18	13.33	3	6	5	10	0	0	60	90	0	0	0	0	0	0	0	0	0
4	BS04	LOA 79/80 (Secondary forest)	24	80	32	26	40	32.67	3	7	0	10	55	0	0	0	0	0	0	0	0	30	10	10	0
5	BS05	Logged over forest	28	70	28	24	30	27.33	4	6	20	30	30	20	5	0	0	0	0	0	5	20	30	5	10
6	BS06	*Paraserianthes* plantation forest	6	40	10	2	6	6.00	1	4	70	80	50	50	40	0	60	0	60	70	95	0	0	0	0
7	BS07	*Paraserianthes* plantation (3.5 years)	16	30	8	8	8	8.00	2	5	90	0	0	0	20	90	20	60	0	0	0	0	0	0	10
8	BS08	Rubber plantation	11	65	16	14	14	14.67	4	4	0	0	90	75	70	0	70	0	0	0	0	90	30	40	70
9	BS09	Rubber plantation	12	70	22	12	12	15.33	4	4	0	20	0	10	0	90	0	0	50	90	80	95	0	95	10
10	BS10	Jungle rubber	14	50	22	16	16	18.00	3	6	0	90	60	20	0	0	60	50	10	0	70	80	40	10	0
11	BS11	Jungle rubber	14	50	18	20	24	20.67	3	7	80	10	70	10	30	70	30	70	0	20	0	40	50	30	70
12	BS12	Imperata	1	90	0.01	0.01	0.01	0.01	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	BS13	Imperata	1	90	0.01	0.01	0.01	0.01	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BS14	Cassava plantation	1.8	50	0.1	0.1	0.1	0.10	1	5	100	100	95	100	100	100	95	95	100	100	95	100	100	100	100
15	BS15	Cassava plantation	1.8	40	0.1	0.1	0.1	0.10	1	4	95	100	100	90	100	95	100	100	100	100	100	95	95	100	100
16	BS16	*Chromolaena dibadium* regrowth	2	95	0.1	0.1	0.1	0.10	1	9	100	100	10	20	100	100	100	100	100	100	100	100	0	100	0

Mcan: Mean canopy; Ccov: Crown cover; BA: Basal Area; BA_AV: Basal area average; BRY: Bryophyte; WP: Woody plants; Fi: Furcation Index

ANNEX III

Table 1b (cont.) Site locations and physical features for Jambi Benchmark sites

No.	Site	fi16	fi17	fi18	fi19	fi20	fi-av	Remarks	Location
1	BS01	15	0	10	5	20	13.50	Pasir Mayang. Outside Bl 8. Permanent plot Biotrop	Pasir Mayang
2	BS02	60	60	5	0	20	15.50	Intact forest immediately adjacent to BIOTROP permanent plot reopened canopy possibly due to drought	Pasir Mayang
3	BS03	0	5	5	10	20	10.25	Heavily logged over, includes snig-track	Pasir Mayang
4	BS04	0	30	20	25	0	9.50	Pasir Mayang Biotrop	Pasir Mayang
5	BS05	10	5	0	0	5	9.75	Logged over 1983, but very patchy. Approaching primary forest status. Replicate for BS4	Pasir Mayang
6	BS06	70	85	75	70	0	43.75	Pasir Mayang. Industrial forest plantation 1993/1994	Pasir Mayang
7	BS07	30	10	0	0	0	16.50	4 year old *Paraserianthes falcataria* plantation	Pasir Mayang
8	BS08	60	95	95	0	0	39.25	Rubber plantation +/- 8 years	Pasir Mayang
9	BS09	70	80	80	60	0	41.50	Rubber plantation +/- 8 years	Pasir Mayang
10	BS10	100	90	0	0	90	38.50	15-38 year old Jungle Rubber - Hevea brasiliensis planted in among nature species	Pancuran Gading
11	BS11	60	50	30	80	5	40.25	15-38 year Jungle Rubber - very disturbance	Pancuran Gading
12	BS12	0	0	0	0	0	0.00	Short imperata "Alang-alang" grassland fired annually	Kuamang Kuning
13	BS13	0	0	0	0	0	0.00	Short imperata "Alang-alang" grassland fired annually	Kuamang Kuning
14	BS14	100	100	100	95	100	98.75	Cassava plantation (>10 years)	Kuamang Kuning
15	BS15	100	100	95	95	100	98.00	Cassava plantation (Replicate for BS14)	Kuamang Kuning
16	BS16	0	0	100	100	100	71.50	*Chromolaena*	Pancuran Gading

ANNEX III

Table 2. Soil physico-chemical features for Jambi benchmark sites

No.	LUT	Depth, cm	PH H2O	PH KCl	C org, %	N tot,%	P bray2	K	Na	Ca	Mg	Al	H	Sand	Silt	Clay	ECEC	Al_sat	C/N ratio
BS1	NF	0_5	4	3.5	4.01	0.28	10.19	0.16	0.34	1.65	0.41	4.19	1.16	62	24	14	7.91	53.0	14.3
BS1	NF	5_10	4.7	3.8	1.86	0.14	4.19	0.09	0.24	1.54	0.51	4.19	0.85	62	20	18	7.42	56.5	13.3
BS1	NF	10_20	4.9	3.9	1.2	0.09	2.09	0.08	0.22	1.54	0.1	3.59	0.89	62	20	18	6.42	55.9	13.3
BS1	NF	20_30	4.9	4	0.8	0.06	1.69	0.06	0.22	1.03	0.07	3.53	0.83	64	18	18	5.74	61.5	13.3
BS2	NF	0_5	4.2	3.5	3.21	0.19	9.19	0.19	0.31	1.54	0.62	3.71	1.27	67	22	11	7.64	48.6	16.9
BS2	NF	5_10	4.7	3.8	2.01	0.13	6.69	0.11	0.24	1.54	0.1	3.53	0.83	69	19	12	6.35	55.6	15.5
BS2	NF	10_20	4.8	3.7	1.61	0.12	2.69	0.11	0.23	3.61	1.03	3.17	0.93	66	17	17	9.08	34.9	13.4
BS2	NF	20_30	4.8	4	0.96	0.07	1.69	0.09	0.2	1.54	0.1	2.99	1.06	67	17	16	5.98	50.0	13.7
BS3	LOF	0_5	4.5	3.7	1.85	0.13	2.69	0.12	0.25	1.55	0.51	2.93	0.8	54	8	38	6.16	47.6	14.2
BS3	LOF	5_10	5.2	3.8	1.53	0.12	5.19	0.1	0.29	2.06	0.21	2.69	0.24	81	10	9	5.59	48.1	12.8
BS3	LOF	10_20	5	4	1.36	0.11	4.69	0.08	0.2	1.03	0.51	2.69	0.74	67	13	20	5.25	51.2	12.4
BS3	LOF	20_30	4.8	4	1.2	0.08	3.16	0.06	0.18	1.02	0.51	3.02	0.99	65	13	22	5.78	52.2	15.0
BS4	LOF	0_5	4.5	3.6	4.66	0.28	18.02	0.15	0.25	1.12	1.02	4.15	1.09	81	11	8	7.78	53.3	16.6
BS4	LOF	5_10	4	3.5	3.13	0.18	5.19	0.11	0.25	1.55	1.34	3.29	1.38	79	10	11	7.92	41.5	17.4
BS4	LOF	10_20	4.6	3.7	2.09	0.12	3.69	0.09	0.25	2.57	0.41	3.29	1.38	77	10	13	7.99	41.2	17.4
BS4	LOF	20_30	4.7	3.7	1.85	0.12	2.69	0.08	0.28	2.37	0.21	3.41	0.95	74	10	16	7.3	46.7	15.4
BS5	LOF	0_5	4.2	3.3	4.41	0.28	6.19	0.2	0.39	2.06	0.31	2.69	1.65	79	13	8	7.3	36.8	15.8
BS5	LOF	5_10	4.5	3.8	1.91	0.12	6.13	0.1	0.28	1.12	1.22	2.97	0.97	79	13	8	6.66	44.6	15.9
BS5	LOF	10_20	4.8	3.9	1.61	0.1	4.65	0.07	0.22	1.33	0.41	2.97	0.73	76	11	13	5.73	51.8	16.1
BS5	LOF	20_30	4.8	4	1.27	0.1	4.15	0.07	0.16	1.22	0.61	2.67	0.66	75	15	10	5.39	49.5	12.7
BS6	HTI	0_5	4.4	3.9	2.78	0.17	18.52	0.18	0.38	2.04	0.61	2.61	0.47	84	8	8	6.29	41.5	16.4
BS6	HTI	5_10	4.3	3.9	2.15	0.13	9.1	0.06	0.19	1.33	1.22	2.67	0.72	82	10	8	6.19	43.1	16.5
BS6	HTI	10_20	4.8	4	1.67	0.1	5.64	0.06	0.14	1.54	1.02	2.31	0.77	79	8	13	5.84	39.6	16.7
BS6	HTI	20_30	4.8	4.1	0.5	0.05	2.66	0.04	0.13	1.22	0.31	2.55	0.6	74	10	16	4.85	52.6	10.0
BS7	HTI	0_5	5.2	3.8	4.21	0.28	8.78	0.41	0.62	4.68	1.56	1.33	0.87	46	28	26	9.47	14.0	15.0
BS7	HTI	5_10	5.2	3.9	2.11	0.16	1.2	0.21	0.45	4.16	1.14	1.89	0.21	45	19	36	8.06	23.4	13.2
BS7	HTI	10_20	4.8	3.6	1.78	0.14	0.69	0.19	0.43	3.12	1.04	4.23	0.8	43	22	35	9.81	43.1	12.7
BS7	HTI	20_30	4.8	3.6	1.62	0.11	0.19	0.12	0.38	1.87	1.25	5.14	0.9	43	22	35	9.66	53.2	14.7
BS8	RUB_P	0_5	4.6	3.5	5.97	0.38	1.2	0.19	0.36	2.41	0.95	3.96	2.07	14	27	59	9.94	39.8	15.7
BS8	RUB_P	5_10	4.5	3.7	2.95	0.18	0.19	0.12	0.29	2.1	0.31	2.81	1.25	14	11	75	6.88	40.8	16.4
BS8	RUB_P	10_20	4.9	3.7	1.96	0.13	0.19	0.12	0.33	1.68	0.41	2.81	0.86	12	16	72	6.21	45.2	15.1

ANNEX III

Table 2. Soil physico-chemical features for Jambi benchmark sites

No.	LUT	Depth, cm	PH H2O	PH KCl	C org, %	N tot,%	P bray2	K	Na	Ca	Mg	Al	H	Sand	Silt	Clay	ECEC	Al_sat	C/N ratio
BS8	RUB_P	20_30	4.9	3.8	1.86	0.12	0.19	0.1	0.32	1.52	0.94	1.63	0.71	11	13	76	5.22	31.2	15.5
BS9	RUB_P	0_5	4.4	3.6	3.27	0.53	10.04	0.27	0.38	1.78	0.59	5.67	1.89	15	41	44	9.4	60.3	6.2
BS9	RUB_P	5_10	4.8	3.7	2.41	0.31	7.5	0.13	0.36	1.62	0.42	3.23	1.21	13	15	72	7.65	42.2	7.8
BS9	RUB_P	10_20	4.7	3.9	2.19	0.16	1.25	0.09	0.18	1.8	1.08	3.14	1.04	13	18	69	7.5	41.9	13.7
BS9	RUB_P	20_30	4.5	3.9	2.13	0.14	0.18	0.05	0.17	1.57	0.63	3.36	1.08	12	23	65	6.82	49.3	15.2
BS10	J_RUB	0_5	5.2	3.8	6.23	0.46	41.51	0.51	0.69	2.37	0.76	5.31	2.63	6	70	24	10.72	49.5	13.5
BS10	J_RUB	5_10	5.1	3.8	3.97	0.28	17.18	0.23	0.63	2.12	0.42	5.05	1.49	7	58	35	11.08	45.6	14.2
BS10	J_RUB	10_20	5.1	3.8	2.81	0.22	10.49	0.22	0.37	1.59	0.21	4.93	1.48	5	54	41	8.81	56.0	12.8
BS10	J_RUB	20_30	5.1	3.8	2.13	0.19	4.78	0.13	0.31	1.26	0.31	4.88	1.15	5	46	49	8.37	58.3	11.2
BS11	J_RUB	0_5	5.4	3.9	5.76	0.37	32.84	0.46	0.68	2.46	0.33	3.39	1.76	9	52	39	8.47	40.0	15.6
BS11	J_RUB	5_10	5.3	3.9	3.2	0.27	10.17	0.25	0.45	1.71	0.23	3.98	1.53	9	50	41	8.38	47.5	11.9
BS11	J_RUB	10_20	5.2	3.8	2.44	0.23	5.44	0.25	0.42	1.84	0.32	3.77	1.26	9	42	49	8.13	46.4	10.6
BS11	J_RUB	20_30	5.1	3.8	2.11	0.2	1.3	0.27	0.52	1.72	0.34	3.1	1.02	7	33	60	7.21	43.0	10.6
BS12	IMP	0_5	5.8	4.1	2.19	0.13	8.27	0.2	0.36	1.56	1.04	1.21	0.05	66	14	20	5.39	22.4	16.8
BS12	IMP	5_10	5.5	4.2	2.03	0.12	6.25	0.12	0.37	1.35	0.41	1.03	0.61	67	11	22	3.33	30.9	16.9
BS12	IMP	10_20	5.3	3.8	1.78	0.1	1.2	0.11	0.31	1.35	0.73	1.51	0.31	69	9	22	4.62	32.7	17.8
BS12	IMP	20_30	5.2	3.9	1.22	0.09	1.2	0.05	0.22	1.56	0.52	2	0.39	61	13	26	4.66	42.9	13.6
BS13	IMP	0_5	5.7	4	2.23	0.13	4.15	0.09	0.42	1.12	0.51	1.18	0.67	66	13	21	3.71	31.8	17.2
BS13	IMP	5_10	5.6	4	2.1	0.12	3.16	0.2	0.45	1.12	0.71	1.48	0.68	67	5	28	4.63	32.0	17.5
BS13	IMP	10_20	5.4	4	2.07	0.12	2.66	0.18	0.44	1.72	0.41	1.78	0.19	65	8	27	5.21	34.2	17.3
BS13	IMP	20_30	5.4	4	1.51	0.09	1.67	0.14	0.41	1.34	1.02	1.78	0.38	65	8	27	4.88	36.5	16.8
BS14	CAS	0_5	5	3.8	1.51	0.11	18.02	0.11	0.25	1.02	0.81	2.19	0.09	61	16	23	4.76	46.0	13.7
BS14	CAS	5_10	5	3.8	1.27	0.1	6.13	0.1	0.24	1.63	0.94	2.07	0.82	57	16	27	5.07	40.8	12.7
BS14	CAS	10_20	5	3.8	0.97	0.09	2.21	0.06	0.23	2.29	0.63	2.12	0.71	54	19	27	6.15	34.5	10.8
BS14	CAS	20_30	4.8	3.8	0.49	0.05	0.19	0.05	0.22	1.56	1.04	2.48	0.41	51	16	33	6.06	40.9	9.8
BS15	CAS	0_5	5.1	3.9	1.78	0.12	17.36	0.11	0.36	2.08	0.45	1.51	0.5	68	13	19	4.92	30.7	14.8
BS15	CAS	5_10	5.1	3.8	1.7	0.11	7.77	0.11	0.34	1.56	0.52	1.51	0.69	61	18	21	4.54	33.3	15.5
BS15	CAS	10_20	5.2	3.9	1.62	0.1	6.76	0.11	0.31	1.56	1.04	1.81	0.7	60	16	24	5.52	32.8	16.2
BS15	CAS	20_30	5.2	3.9	1.38	0.1	4.23	0.08	0.29	1.56	0.41	1.81	0.7	60	16	24	4.85	37.3	13.8
BS16	CHROM	0_5	5.7	4.2	4.66	0.32	35.1	0.48	0.88	2.64	2.41	1.2	0.88	9	66	25	8.31	14.4	14.6
BS16	CHROM	5_10	5.3	3.9	3.64	0.28	17.92	0.28	0.71	2.28	0.57	2.65	1.49	9	59	32	7.37	36.0	13.0
BS16	CHROM	10_20	4.9	3.8	2.72	0.2	6.49	0.27	0.61	2.96	0.22	2.85	1.43	6	57	37	8.4	33.9	13.6
BS16	CHROM	20_30	4.8	3.7	2.27	0.16	3.37	0.12	0.54	1.62	0.54	3.45	1.12	10	52	38	7.7	44.8	14.2

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
1	Sapindaceae	Xerospermum	noronhianum Bl.	BS01	XERONORO	no-co-do-ph
2	Burseraceae	Dacryodes	rugosa (Bl.) H.J. Lam	BS01	DACRRUGO	no-la-do-ct-ph
3	Fabaceae	Sindora	leiocarpa Backer ex. K. Heyne	BS01	SINDLEIO	mi-ve-do-ph
4	Myristicaceae	Knema	cinerea (Poir.) Warb.	BS01	KNEMCINE	no-la-do-ph
5	Myrtaceae	Eugenia	ochneocarpa Merr.	BS01	EUGEOCHN	no-co-do-ph
6	Myristicaceae	Knema	mandahoran (Miq.) Warb.	BS01	KNEMMAND	me-co-do-ph
7	Sterculiaceae	Scaphium	macropodum (Miq.) Beumee	BS01	SCAPMACR	me-la-do-de-ph
8	Annonaceae	Polyalthia	lateriflora (Bl.) King.	BS01	POLYLATE	me-la-do-ph
9	Sapotaceae	Palaquium	gutta (Hook.f.) Baillon	BS01	PALAGUTT	no-co-do-ph
10	Myristicaceae	Horsfieldia	grandis (Bl.) Warb	BS01	HORSGRAN	pl-la-do-ph
11	Burseraceae	Santiria	graffithii (Hook.f.) Engl.	BS01	SANTGRAF	no-ve-do-ph
12	Myrtaceae	Eugenia	palembanica (Miq.) Merr.	BS01	EUGEPALE	no-ve-do-ph
13	Theaceae	Gordonia	sp.	BS01	GORDSPP.	no-co-do-ph
14	Fabaceae	Koompasia	malaccensis Maing. ex Benth.	BS01	KOOMMALA	mi-ve-do-ph
15	Trigoniaceae	Trigoniastrum	hypoleucum Miq.	BS01	TRIGHYPO	mi-la-do-ph
16	Ulmaceae	Gironniera	hirta Ridl.	BS01	GIROHIRT	no-la-do-ph
17	Dipterocarpaceae	Shorea	macropera Dyer.	BS01	SHORMACR	no-ve-do-ph
18	Moraceae	Artocarpus	anysophyllus Miq.	BS01	ARTOANYS	no-la-do-ph
19	Euphorbiaceae	Drypetes	longifolia Pax. & Hoffm.	BS01	DRYPLONG	no-la-do-ct-ph
20	Fabaceae	Fordia	johorensis Whitmore	BS01	FARDJOHO	no-la-do-ct-ph
21	Thymelaeaceae	Gonystylus	maingayi Hk.f.	BS01	GONYMAIN	no-la-do-ct-ph
22	Connaraceae	Agelaea	borneensis (Hook.f.) Merr.	BS01	AGELBORN	mi-la-do-ct-ph
23	Lecythidaceae	Barringtonia	scortechinii King.	BS01	BARRSCOR	no-la-do-ph
24	Rubiaceae	Timonius	stipulosus (Scheff.) Boerl..	BS01	TIMOSTIP	me-la-do-ph
25	Dilleniaceae	Tetracera	scandens (L.) Merr.	BS01	TETRSCAN	me-la-do-ph-li
26	Connaraceae	Connarus	monocarpus L.	BS01	CONNMONO	no-la-do-ph-li
27	Arecaceae	Licuala	spinosa Wurmb.	BS01	LICUSPIN	ma-la-do-ro-pv-ph
28	Burseraceae	Dacryodes	incurvata (Engler.) H.J. Lam	BS01	DACRINCU	me-la-do-ph
29	Flacourtiaceae	Hydrocarpus	polipetala (v. SLoot) Sleumer.	BS01	HYDRPOLI	no-la-do-ph
30	Sapotaceae	Madhuca	sandakaensis van Royen	BS01	MADHSAND	no-la-do-ph
31	Celastraceae	Bhesa	paniculata Arn.	BS01	BHESPANI	me-la-do-ph
32	Annonaceae	Polyalthia	beccari King.	BS01	POLYBECC	no-la-do-ph
33	Connaraceae	Agelaea	macrophylla (Zoll.) Leenh.	BS01	AGELMACR	me-la-do-ph-li
34	Fabaceae	Derris	sp.	BS01	DERRSPP.	na-la-do-ph-li
35	Arecaceae	Licuala	ferruginea Becc.	BS01	LICUFERR	me-la-do-ro-pv-hc
36	Thymelaeaceae	Gonystylus	velutinus Airy Shaw	BS01	GONYVELU	no-la-do-ph
37	Connaraceae	Rourea	minor (Gaertn.) Leenh.	BS01	ROURMINO	mi-la-do-ph-li
38	Euphorbiaceae	Aporusa	subcaudata Merr.	BS01	APORSUBC	no-la-do-ph
39	Piperaceae	Piper	sp1.	BS01	PIPESPP1	mi-la-do-su-hc-ad-ep
40	Annonaceae	Desmos	chinensis Lour.	BS01	DESMCHIN	mi-la-do-ph-li
41	Apocynaceae	Willughbeia	coriacea Lour.	BS01	WILLCORI	no-la-do-ph-li
42	Polygalaceae	Xanthophyllum	affine Korth.	BS01	XANTAFFI	no-la-do-ph
43	Icacinaceae	Gonocaryum	gracile Miq.	BS01	GONOGRAC	me-la-do-ct-ph
44	Annonaceae	Goniothalamus	macrophyllus (Bl.) Hook.f. & Thoms	BS01	GONIMACR	me-la-do-ct-ph
45	Dilleniaceae	Dillenia	borneensis Hogl.	BS01	DILLBORN	pl-la-do-ph
46	Fagaceae	Lithocarpus	indutus (Bl.) Rehd.	BS01	LITHINDU	pl-la-do-ph
47	Sapotaceae	Madhuca	sericeae (Miq.) H.J. Lam	BS01	MADHSERI	no-la-do-ph
48	Sterculiaceae	Buettneria	curtisii Oliv.	BS01	BUETCURT	mi-la-do-ph-li
49	Sapotaceae	Palaquium	elasiphyllum (de Vriese) Pierre ex Dubard	BS01	PALAELAS	me-la-do-ct-ph
50	Arecaceae	Calamus	javensis Bl.	BS01	CALAJAVA	me-la-do-ro-pv-ph-li

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
51	Arecaceae	Daemonorops	sp.	BS01	DAEMSPP.	no-la-do-pv-ph-li
52	Myristicaceae	Knema	sp2.	BS01	GYMNSPP2	me-la-do-ph
53	Connaraceae	Agelaea	sp1.	BS01	AGELSPP1	mi-la-do-ph-li
54	Connaraceae	Ellipanthus	tomentosus Kurz.	BS01	ELLITOME	mi-la-do-ph-li
55	Fabaceae	Spatholobus	sp.	BS01	SPATSPP.	no-la-do-ph-li
56	Euphorbiaceae	Ptychopyxis	costata Miq.	BS01	PTYCCOST	me-la-do-ct-ph
57	Rhizophoraceae	Anisophylla	disticha (Jack) Baillon	BS01	ANISDIST	na-la-do-ph
58	Fabaceae	Parkia	speciosa Hassk.	BS01	PARKSPEC	no-la-do-ct-ph
59	Sapindaceae	Nephelium	maingayi Hiern	BS01	NEPHMAIN	no-la-do-ct-ph
60	Vitaceae	Cissus	simplex Blanco	BS01	CISSSIMP	no-la-do-ph-li
61	Connaraceae	Connarus	semidecandrus Jack.	BS01	CONNSEMI	no-la-do-ph-li
62	Euphorbiaceae	Glochidion	superbum Baill.	BS01	GLOCSUPE	me-la-do-ph
63	Annonaceae	Artabotrys	sp 1.	BS01	ARTASPP1	me-la-do-ph-li
64	Flagellariaceae	Flagellaria	indica L.	BS01	FLAGINDI	no-co-do-pv-ph-li
65	Euphorbiaceae	Antidesma	sp.	BS01	APORSPP.	no-la-do-ct-ph
66	Meliaceae	Dysoxylum	macrocarpum Bl.	BS01	DYSOMACR	me-la-do-ph
67	Myrtaceae	Eugenia	inophylla Roxb.	BS01	EUGEINOP	no-la-do-ph
68	Rubiaceae	Tarrena	fragrans K. et V.	BS01	TARRFRAG	no-la-do-ph
69	Annonaceae	Xylopia	malayana Hook.f. & Thoms	BS01	XYLOMALA	mi-la-do-ct-ph
70	Rosaceae	Prunus	grissea (C.Muell.) Kalkman	BS01	PRUNGRIS	no-la-do-ct-ph
71	Polygalaceae	Xanthophyllum	rufum A.W. Benn.	BS01	XANTRUFU	no-la-do-ct-ph
72	Connaraceae	Rourea	mimosoides (Vahl.) Planch.	BS01	ROURMIMO	na-la-do-ph-li
73	Lauraceae	Cryptocarya	sumatrana Kosterm.	BS01	CRYPSUMA	me-la-do-ct-ph
74	Loganiaceae	Strychnos	ignatii Berg.	BS01	STRYIGNA	mi-la-do-ph-li
75	Juglandaceae	Engelhardtia	serrata Bl.	BS01	ENGESERR	mi-la-do-ct-ph
76	Vitaceae	Cissus	sp.	BS01	CISSSPP.	no-la-do-ph-li
77	Sabiaceae	Meliosma	symplicifolia (Roxb.) Walp..	BS01	MELISYMP	pl-la-do-ct-ph
78	Myristicaceae	Gymnacranthera	contracta Warb.	BS01	GYMNCONT	me-la-do-ct-ph
79	Burseraceae	Santiria	laevigata Bl.	BS01	SANTLAEV	me-la-do-ct-ph
80	Euphorbiaceae	Koilodepas	longifolium Hook.f.	BS01	KOILLONG	no-la-do-ct-ph
81	Euphorbiaceae	Baccaurea	bracteata M.A.	BS01	BACCBRAC	me-la-do-ph
82	Verbenaceae	Teijsmaniodendron	coriaceum (C.B. Clarke) Kosterm.	BS01	TEIJCORI	mi-la-do-ct-ph
83	Fabaceae	Phanera	sp.	BS01	PHANSPP.	no-la-do-ph-li
84	Menispermaceae	Limacia	scandens Lour.	BS01	LIMASCAN	me-la-do-ph-li
85	Euphorbiaceae	Neoscortechinia	kingii (Hook.f.) Pax.& K.Hoffm	BS01	NEOSKING	no-la-do-ph
86	Fagaceae	Lithocarpus	sp2.	BS01	LITHSPP2	no-la-do-ph
87	Burseraceae	Dacryodes	incurvata (Engler.) H.J. Lam	BS01	CANAINCU	pl-la-do-ct-ph
88	Melastomataceae	Memecylon	floribundum Bl.	BS01	MEMEFLOR	no-la-do-ct-ph
89	Rubiaceae	Tricalysia	singularis Korth.	BS01	TRICSING	mi-la-do-ct-ph
90	Myrsinaceae	Ardisia	sp1.	BS01	ARDISPP1	no-la-do-ct-ph
91	Annonaceae	Oxymitra	grandifolia Merr.	BS01	OXYMGRAN	pl-la-do-ph-li
92	Burseraceae	Canarium	littorale Blume	BS01	CANALITT	mi-co-do-ph
93	Rubiaceae	Psychotria	sp1.	BS01	PSYCSPP1	no-ve-do-hc-ad-ep
94	Euphorbiaceae	Baccaurea	deflexa M.A.	BS01	BACCDEFL	me-la-do-ct-ph
95	Icacinaceae	Sarcostigma	paniculata Pierre	BS01	SARCPANI	me-la-do-ph-li
96	Anacardiaceae	Indet		BS01	ANACINDE	me-ve-do-ph
97	Aspleniaceae	Diplazium	sp.	BS01	DIPLSPP.	no-la-do-fi-hc
98	Orchidaceae	Apostasia	wallichii R.Br.	BS01	APOSWALL	mi-la-do-pv-hc
99	Myrsinaceae	Labisia	acuta Ridl.	BS01	LABIACUT	no-la-do-su-hc
100	Zingiberaceae	Globba	sp2.	BS01	GLOBSPP2	mi-la-do-su-hc-ad
101	Orchidaceae	Calanthe	sp.	BS01	CALASPP.	no-la-do-pv-hc-ad
102	Zingiberaceae	Globba	paniculata Val.	BS01	GLOBPANI	no-ve-do-hc-ad

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
103	Aspleniaceae	Asplenium	nidus L.	BS01	ASPLNIDU	pl-ve-do-ro-fi-hc-ep
104	Burseraceae	Santiria	laevigata Blume	BS02	SANTLAEV	me-co-do-ph
105	Clusiaceae	Garcinia	dioica Blume	BS02	GARCDIOI	mi-la-do-ph
106	Annonaceae	Monocarpia	marginalis (Scheff.) J.Sinc.	BS02	MONOMARG	me-co-do-ph
107	Arecaceae	Licuala	ferruginea Becc.	BS02	LICUFERR	ma-la-do-ro-pv-hc
108	Fabaceae	Fordia	johorensis T.C. Whitm.	BS02	FORDJOHO	mi-la-do-ct-ph
109	Melastomataceae	Memecylon	myrsinoides Blume	BS02	MEMEMYRS	mi-la-do-ct-ph
110	Rhizophoraceae	Anisophylla	disticha (Jack) Baillon	BS02	ANISDIST	no-la-do-ct-ph
111	Rhamnaceae	Ventilago	oblongifolia Blume	BS02	VENTOBLO	no-la-do-ph-li
112	Clusiaceae	Garcinia	morella Desr.	BS02	GARCMORE	mi-la-do-ph
113	Fabaceae	Bauhinia	kockiana Korth.	BS02	BAUHKOCK	no-la-do-ph-li
114	Clusiaceae	Garcinia	scorthechinii King	BS02	GARCSCOR	mi-la-do-ph
115	Sapotaceae	Pouteria	sp1	BS02	POUTSP1	me-la-do-ct-ph
116	Lauraceae	Cinnamomum	iners Reinw. ex Blume	BS02	CINNINER	me-la-do-ph
117	Burseraceae	Santiria	sp.	BS02	SANTSPP.	me-la-do-ph
118	Burseraceae	Dacryodes	rostrata (Blume) H.J. Lam	BS02	DACRROST	no-la-do-ct-ph
119	Myrtaceae	Syzygium	suringarianum (Koord. & Valeton) Amshoff	BS02	SYZYSURI	me-la-do-ph
120	Sapotaceae	Palaquium	obovatum (Griff.) Engl.	BS02	PALAOBOV	me-la-do-ph
121	Meliaceae	Walsura	sp.	BS02	WALSSPP.	me-la-do-ph
122	Dipterocarpaceae	Parashorea	lucida Kurz	BS02	PARALUCI	me-la-do-ct-ph
123	Polygalaceae	Xanthopyllum	incertum (Bl.) R. van der Meijden	BS02	XANTINCE	me-la-do-ct-ph
124	Dipterocarpaceae	Shorea	pauciflora King	BS02	SHORPAUC	me-la-do-ph
125	Burseraceae	Santiria	griffithii Engl.	BS02	SANTGRIF	no-la-do-ph
126	Linaceae	Ixonanthes	icosandra Jack.	BS02	IXONICOS	me-la-do-ph
127	Clusiaceae	Calophyllum	venulosum Zoll.	BS02	CALOVENU	me-la-do-ph
128	Connaraceae	Rourea	mimosoides (Vahl.) Planch.	BS02	ROURMIMO	na-la-do-ph-li
129	Euphorbiaceae	Neoscortechinia	kingii (Hook.f.0 Pax & K. Hoffm.	BS02	NEOSKING	me-la-do-ct-ph
130	Liliaceae	Smilax	cf. celebica Bl.	BS02	SMILCELE	no-la-do-ph-li
131	Connaraceae	Agelaea	borneensis (Hook.f.) Merr.	BS02	AGELBORN	me-la-do-ph-li
132	Myristicaceae	Knema	cinerea (Poir.) Warb.	BS02	KNEMCINE	me-la-do-ct-ph
133	Arecaceae	Calamus	sp1	BS02	CALASP1	me-la-do-ro-pv-hc-li
134	Euphorbiaceae	Pimeleodendron	papaveroides J.J. Smith	BS02	PIMEPAPA	no-la-do-ct-ph
135	Euphorbiaceae	Baccaurea	sumatrana Muell.Arg.	BS02	BACCSUMA	me-la-do-ct-ph
136	Dipterocarpaceae	Shorea	ovalis (Korth.) Blume	BS02	SHOROVAL	me-la-do-ph
137	Euphorbiaceae	Fahrenheitia	pendula (Hassk.) Airy Shaw	BS02	FAHRPEND	pl-la-do-ct-ph
138	Orchidaceae	Tropidia	cf. graminae Blume	BS02	TROPGRAM	mi-co-do-ro-pv-hc-li-ad
139	Apocynaceae	Alyxia	sp.	BS02	ALYXSPP.	mi-la-do-ph-li
140	Rubiaceae	Lecananthus	sp.	BS02	LECASPP.	mi-la-do-hc-li-ad
141	Lauraceae	Alseodaphne	sp.	BS02	ALSESPP.	pl-la-do-ct-ph
142	Connaraceae	Cnestis	platantha Griff.	BS02	CNESPLAT	mi-pe-do-ph-li
143	Lauraceae	Litsea	sp.	BS02	LITSSPP.	pl-la-do-ct-ph
144	Dipterocarpaceae	Shorea	macroptera Dyer	BS02	SHORMACR	me-la-do-ct-ph
145	Dipterocarpaceae	Shorea	parvifolia Dyer	BS02	SHORPARV	no-la-do-ct-ph
146	Arecaceae	Pinanga	coronata (Bl. ex Mart.) Blume	BS02	PINACORO	me-la-do-ro-pv-ph
147	Sapindaceae	Xerospermum	sp.	BS02	XEROSPP.	no-la-do-ct-ph
148	Arecaceae	Calamus	sp2	BS02	CALASP2	me-la-do-ro-pv-hc-li
149	Orchidaceae	Tropidia	cf. graminae Blume	BS02	TROPGRAM	mi-co-do-pv-hc-ad
150	Rubiaceae	Urophyllum	glabrum Wall	BS02	UROPGLAB	me-la-do-ch
151	Sapotaceae	Palaquium	gutta (Hook.f.) Baillon	BS02	PALAGUTT	no-la-do-ph
152	Sapotaceae	Pouteria	sp2	BS02	POUTSP2	pl-co-do-ct-ph-ad
153	Apocynaceae	Willughbeia	flavescens Dyer ex Hook.f.	BS02	WILLFLAV	me-la-do-ph-li
154	Clusiaceae	Mesua	beccariana (Baill.) Kosterm	BS02	MESUBECC	me-la-do-ph

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Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
155	Ulmaceae	Gironniera	subaequalis Planch.	BS02	GYROSUBA	no-la-do-ct-ph
156	Olacaceae	Ochanostachys	amentacea Mast.	BS02	OCHAAMEN	no-la-do-ph
157	Moraceae	Artocarpus	lanceaefolia Roxb.	BS02	ARTOLANC	me-la-do-ct-ph
158	Rubiaceae	Diplospora	singularis Korth.	BS02	DIPLSING	no-la-do-ct-ph
159	Dilleniaceae	Tetracera	scandens (L.) Merrill	BS02	TETRSCAN	no-la-do-ph-li
160	Menispermaceae	Limacia	scandens Lour	BS02	LIMASCAN	me-la-do-ph-li
161	Connaraceae	Agelaea	macrophylla (Zoll.) Leenh.	BS02	AGELMACR	no-la-do-ph-li
162	Fabaceae	Koompassia	malaccensis Maing. ex Benth.	BS02	KOOMMALA	mi-co-do-ph
163	Liliaceae	Dracaena	angustifolia Roxb.	BS02	DRACANGU	me-la-do-ro-su-pv-hc-ad
164	Rubiaceae	Pavetta	montana Reinw. ex Blume	BS02	PAVEMONT	no-la-do-ct-ph
165	Fagaceae	Lithocarpus	sp.	BS02	LITHSPP.	pl-la-do-ph-ad
166	Myrtaceae	Syzygium	suringarianum (Koord. & Valeton) Amshoff	BS02	SYZYSURI	no-la-do-ph
167	Polygalaceae	Xanthopyllum	flavescens Roxb.	BS02	XANTFLAV	no-la-do-ph
168	Zingiberaceae	Alpinia	sp.	BS02	ALPISPP.	me-la-do-su-pv-hc-ad
169	Rosaceae	Parinari	sp.	BS02	PARISPP.	mi-la-do-ph
170	Pandanaceae	Freycinetia	sumatrana Hemsl.	BS02	FREYSUMA	no-co-do-ro-pv-hc-li-ad
171	Sapindaceae	Xerospermum	noronhianum Blume	BS02	XERONORO	me-la-do-ph
172	Icacinaceae	Cantleya	corniculata (Becc.) Howard	BS02	CANTCORN	no-la-do-ct-ph
173	Fabaceae	Spatholobus	ferrugineus (Zoll. & Mor.) Benth.	BS02	SPHAFERR	me-la-do-ph-li
174	Burseraceae	Canarium	littorale Blume	BS02	CANALITT	no-la-do-ph
175	Anacardiaceae	Swintonia	sp.	BS02	SWINSPP.	no-co-do-ph
176	Liliaceae	Smilax	macrocarpa Blume	BS02	SMILMACR	me-la-do-ch-li-ad-ep
177	Burseraceae	Dacryodes	costata (A.W. Been.) H.J. Lam	BS02	DACRCOST	no-la-do-ph
178	Burseraceae	Dacryodes	incurvata (Engler) H.J. Lam	BS02	DACRINCU	me-la-do-ph
179	Apocynaceae	Willughbeia	coriacea Wall	BS02	WILLCORI	me-la-do-ph-li
180	Fabaceae	Dalbergia	rostrata Hassk.	BS02	DALBROST	mi-la-do-ph-li
181	Anacardiaceae	Pentaspadon	velutinus Hook.f.	BS02	PENTVELU	no-la-do-ph
182	Euphorbiaceae	Coelodepas	brevipes Merrill	BS02	COELBREV	me-la-do-ct-ph
183	Dipterocarpaceae	Dipterocarpus	lowii Hook.f.	BS02	DIPTLOWI	me-ve-do-ph
184	Euphorbiaceae	Croton	argyratus Blume	BS02	CROTARGY	me-la-do-ct-ph
185	Celastraceae	Salacia	sp.	BS02	SALASPP.	me-la-do-ph-li-ep
186	Ulmaceae	Gironniera	nervosa Planch	BS02	GYRONERV	me-la-do-ct-ph
187	Euphorbiaceae	Aporusa	sp.	BS02	APORSPP.	no-la-do-ph
188	Rutaceae	Acronichia	laurifolia Blume	BS02	ACROLAUR	me-la-do-ph
189	Meliaceae	Lansium	aqueum (Jack) Kosterm	BS02	LANSAQUE	me-la-do-ct-ph
190	Rubiaceae	Gardenia	anisophylla Jack ex Roxb.	BS02	GARDANIS	pl-la-do-ph
191	Celastraceae	Salacia	macrophylla Blume	BS02	SALAMACR	me-la-do-ct-ph
192	Lauraceae	Cryptocarya	sp.	BS02	CRYPSPP.	me-la-do-ph
193	Araceae	Anadendron	montanum	BS02	ANADMONT	me-la-do-su-hc-ad-ep
194	Annonaceae	Popowia	tomentosa Maing. ex Hook.f. & Thoms.	BS02	POPOTOME	no-la-do-ph
195	Polypodiaceae	Drynaria	sparsiosora (Desv.) Moore	BS02	DRYNSPAR	pl-ve-do-fi-hc-ad-ep
196	Sterculiaceae	Scaphium	macropodum (Miq.) Beumee	BS02	SCAPMACR	me-co-do-de-ph
197	Moraceae	Ficus	sp.	BS02	FICUSPP.	na-ve-do-hc-ad-ep
198	Myrsinaceae	Embelia	sp.	BS02	EMBESPP.	mi-la-do-ph-li
199	Annonaceae	Polyalthia	sumatrana (Miq.) Kurz	BS02	POLYSUMA	me-la-do-ph
200	Euphorbiaceae	Ptychopyxix	kingii Ridley	BS02	PTYCKING	me-la-do-ph
201	Loganiaceae	Fragaea	recemosa Jack ex Wall.	BS02	FRAGRECE	me-la-do-ph
202	Gnetaceae	Gnetum	latifolium Blume	BS02	GNETLATI	me-la-do-ph-li
203	Anacardiaceae	Pentaspadon	velutinus Hook.f.	BS02	PENTVELU	mi-co-do-ph
204	Meliaceae	Aglaia	tomentosa Teijsm. & Binn.	BS02	AGLATOME	no-la-do-ph
205	Burseraceae	Santiria	oblongifolia Blume	BS02	SANTOBLO	me-la-do-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
206	Rubiaceae	Lansianthus	scabridus King & Gamble	BS02	LANSSCAB	me-la-do-ct-ph
207	Simaroubaceae	Eurycoma	longifolia Jack	BS02	EURYLONG	mi-la-do-ph
208	Dilleniaceae	Dillenia	ovata Wall. ex Hook.f. & Thoms.	BS03	DILLOVAT	pl-la-do-ph-ad
209	Gleicheniaceae	Dicranopteris	linearis (Burms.f.) Underw.	BS03	DICRLINE	na-la-do-fi-hc-li-ad
210	Rubiaceae	Uncaria	glabrata (Blume) DC.	BS03	UNCAGLAB	me-la-do-ph-li
211	Rubiaceae	Adina	minutiflora Valeton	BS03	ADINMINU	no-la-do-ct-ph
212	Dipterocarpaceae	Shorea	acuminata Dyer	BS03	SHORACUM	no-la-do-ct-ph
213	Myrsinaceae	Embelia	dasythyrsa Miq.	BS03	EMBEDASY	mi-la-do-ph-li
214	Apocynaceae	Willughbeia	coriacea Wall.	BS03	WILLCORI	no-la-do-ph-li
215	Dipterocarpaceae	Anisoptera	costata Korth	BS03	ANISCOST	pl-la-do-ct-ph
216	Fabaceae	Cordia	johorensis T.C. Whitm.	BS03	CORDJOHO	no-la-do-ct-ph
217	Rhizophoraceae	Gynotroches	axillaris Blume	BS03	GYNOAXIL	no-la-do-ct-ph
218	Sapotaceae	Madhuca	cf. sericea (Miq.) Lam.	BS03	MADHSERI	me-la-do-ct-ph
219	Myristicaceae	Knema	latericia Elmer	BS03	KNEMLATE	me-la-do-ph
220	Dipterocarpaceae	Shorea	macroptera Dyer	BS03	SHORMACR	me-la-do-ph
221	Burseraceae	Canarium	littorale Blume	BS03	CANALITT	me-la-do-ct-ph
222	Orchidaceae	Dendrobium	secundum (Bl.) Lindl.	BS03	DENDSECU	mi-ve-do-su-pv-hc-ad-ep
223	Polygalaceae	Xanthophyllum	rufum A.W.Benn.	BS03	XANTRUFU	me-la-do-ph
224	Zingiberaceae	Hornstedtia	sp.	BS03	HORNSPP.	me-la-do-su-hc-ad
225	Melastomataceae	Pternandra	rostrata (Cogn.) M.P. Nayar	BS03	PTERROST	me-la-do-ct-ph
226	Clusiaceae	Calophyllum	saigonense Pierre	BS03	CALOSAIG	no-la-do-ct-ph
227	Annonaceae	Melodorum	kentii Hook.f. & Thoms.	BS03	MELOKENT	mi-la-do-ph-li
228	Euphorbiaceae	Glochidion	arborescens Blume	BS03	GLOCARBO	me-la-do-ph
229	Annonaceae	Cyathocalyx	bancanus Boerl.	BS03	CYATBANC	pl-la-do-ct-ph
230	Liliaceae	Smilax	sp.	BS03	SMILSPP.	no-pe-do-ph-li
231	Fabaceae	Dalbergia	rostrata Hassk.	BS03	DALBROST	mi-la-do-ph-li
232	Fabaceae	Spatholobus	ferrugineus (Zoll. & Mor.) benth.	BS03	SPHAFERR	me-la-do-ph-li
233	Fabaceae	Sindora	velutina Baker	BS03	SINDVELU	me-la-do-ph
234	Euphorbiaceae	Baccaurea	sumatrana Muell. Arg.	BS03	BACCSUMA	no-la-do-ct-ph
235	Dipterocarpaceae	Shorea	pauciflora King	BS03	SHORPAUC	no-la-do-ct-ph
236	Menispermaceae	Limacia	scandens Lour.	BS03	LIMASCAN	mi-la-do-ph-li
237	Arecaceae	Licuala	ferruginea Becc.	BS03	LICUFERR	mg-co-do-ro-pv-hc
238	Annonaceae	Monocarpia	marginalis (Scheff.) J. Sincl.	BS03	MONOMARG	me-pe-do-ct-ph
239	Rubiaceae	Gardenia	anisophylla Jack ex Roxb.	BS03	GARDANIS	me-la-do-ph
240	Asclepiadaceae	Telosma	accesdens (Blume) Backer	BS03	TELOACCE	no-la-do-ph-li
241	Melastomataceae	Dissochaeta	gracilis Blume	BS03	DISSGRAC	no-pe-do-ph-li-ad
242	Fabaceae	Phanera	kockiana Benth	BS03	PHANKOCK	mi-la-do-ph-li-ep
243	Anacardiaceae	Mangifera	magnifica K.M. Kochummen	BS03	MANGMAGN	me-co-do-ph
244	Rhamnaceae	Ventilago	oblongifolia Blume	BS03	VENTOBLO	me-la-do-ph-li
245	Moraceae	Streblus	sp.	BS03	STRESPP.	me-co-do-ph-li
246	Burseraceae	Dacryodes	costata (A.W.Been.) H.J. Lam	BS03	DACRCOST	no-la-do-ph
247	Arecaceae	Calamus	sp.	BS03	CALASPP.	me-la-do-ro-pv-ch-li
248	Polypodiaceae	Drynaria	sparsiosora (Desv.) Moore	BS03	DRYNSPAR	pl-ve-do-fi-hc-ad-ep
249	Fabaceae	Dialium	cf. laurinum Baker	BS03	DIALLAUR	me-la-do-ct-ph
250	Cyperaceae	Hypolytrum	nemorum (Vahl) Spreng.	BS03	HYPONEMO	me-co-do-ro-pv-hc
251	Vitaceae	Cissus	repens Lam.	BS03	CISSREPE	no-la-do-ph-li
252	Celastraceae	Bhesa	paniculata Arn.	BS03	BHESPANI	me-la-do-ct-ph
253	Meliaceae	Aglaia	sp.	BS03	AGLASPP.	me-la-do-ph
254	Connaraceae	Agelaea	macrophylla (Zoll.) Leenh.	BS03	AGELMACR	me-pe-do-ph-li
255	Burseraceae	Santiria	sp.	BS03	SANTSPP.	pl-la-do-ph
256	Fabaceae	Indet	(empty)	BS03	INDET***	mi-la-do-ph-li
257	Olacaceae	Ochanostachys	amentacea Mast.	BS03	OCHAAMEN	me-la-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
258	Sapotaceae	Palaquium	leiocarpum (Hook.f.) Baillon	BS04	PALALEIO	no-co-do-ph
259	Dipterocarpaceae	Shorea	macroptera Dyer.	BS04	SHORMACR	no-co-do-ph
260	Burseraceae	Santiria	laevigata Bl.	BS04	SANTLAEV	no-co-do-ph
261	Fabaceae	Crudia	teysmanii de Wit.	BS04	CRUDTEYS	no-la-do-ph
262	Polygalaceae	Xanthophyllum	rufum A.W. Benn.	BS04	XANTRUFU	mi-co-do-ph
263	Rhizophoraceae	Carallia	brachiata (L.) Merrill	BS04	CARABRAC	mi-co-do-ph
264	Dipterocarpaceae	Shorea	parvifolia Dyer.	BS04	SHORPARV	mi-ve-do-ph
265	Annonaceae	Cyathocalyx	bancana Boerl.	BS04	CYATBANC	pl-co-do-ct-ph
266	Euphorbiaceae	Baccaurea	deflexa M.A.	BS04	BACCDEFL	no-co-do-ph
267	Dipterocarpaceae	Shorea	lepidota Korth..	BS04	SHORLEPI	me-co-do-ph
268	Myrtaceae	Syzygium	sp1.	BS04	SYZYSPP1	no-co-do-ph
269	Moraceae	Artocarpus	elasticus Reinw. ex Bl.	BS04	ARTOELAS	ma-co-do-ct-ph
270	Elaeocarpaceae	Elaeocarpus	macrophyllus Bl.	BS04	ELAEGLAB	no-co-do-ph-ad
271	Myristicaceae	Horsfieldia	grandis (Bl.) Warb.	BS04	HORSGRAN	pl-la-do-ph-ad
272	Olaceae	Scorodocarpus	borneensis (Baill.) Becc.	BS04	SCORBORN	me-la-do-ph
273	Dilleniaceae	Dillenia	obovata (Bl.) Hogl.	BS04	DILLOBOV	me-la-do-ph-ad
274	Connaraceae	Agalaea	borneensis (Hook.f.) Merr.	BS04	AGALBORN	mi-la-do-ph-li
275	Burseraceae	Canarium	denticulatum Bl.	BS04	CANADENT	no-la-do-ph
276	Cluciaceae	Mesua	ferruginea (Pierre.) Kosterm.	BS04	MESUFERR	no-la-do-ct-ph
277	Celastraceae	Kokoona	ochracea (Elmer.) Merr.	BS04	KOKOOCHR	no-la-do-ct-ph
278	Lecythidaceae	Barringtonia	scortechinii King.	BS04	BARRSCOR	no-la-do-ph
279	Theaceae	Ternstroemia	bancana Miq.	BS04	TERNBANC	mi-la-do-ct-ph
280	Annonaceae	Xylopia	malayana Hook.f. & Thoms.	BS04	XYLOMALA	mi-la-do-ph
281	Rubiaceae	Gardenia	anisophylla Jack ex Roxb	BS04	GARDANIS	me-la-do-ct-ph
282	Fabaceae	Fordia	johorensis Whitmore	BS04	FORDJOHO	no-la-do-ct-ph
283	Myristicaceae	Knema	cinerea (Poir.) Warb.	BS04	KNEMCINE	no-co-do-ph
284	Apocynaceae	Willughbeia	edulis Roxb.	BS04	WILLEDUL	no-la-do-ph-li
285	Arecaceae	Calamus	javensis Bl.	BS04	CALAJAVE	no-la-do-pv-ph-li
286	Arecaceae	Calamus	sp1.	BS04	CALASPP1	me-la-do-pv-ph-li
287	Loganiaceae	Fagraea	racemosa Jack ex Wall.	BS04	FAGRRACE	me-la-do-ct-ph
288	Annonaceae	Polyalthia	lateriflora (Bl.) King	BS04	POLYLATE	no-la-do-ph
289	Ebenaceae	Diospyros	sp1.	BS04	DIOSSPP1	me-la-do-ph
290	Rubiaceae	Timonius	stipulosus (Scheff.) Boerl.	BS04	TIMOSTIP	me-la-do-ct-ph
291	Euphorbiaceae	Aporusa	subcaudata Merr.	BS04	APORSUBC	no-la-do-ph
292	Thymelaeaceae	Gonystylus	maingayi Hook.f.	BS04	GONYMAIN	no-la-do-ct-ph
293	Sapotaceae	Pouteria	malaccensis (Clarke) Baehni	BS04	POUTMALA	me-la-do-ct-ph
294	Linaceae	Ixonanthes	petiolaris Bl.	BS04	IXONPETI	me-la-do-ph
295	Euphorbiaceae	Trigonopleura	malayana Hook.f.	BS04	TRIGMALA	me-la-do-ph
296	Myrtaceae	Syzygium	splendens (Bl.) Merr.	BS04	SYZYSPLE	mi-la-do-ct-ph-ad
297	Fagaceae	Lithocarpus	sp2.	BS04	LITHSPP2	me-la-do-ph
298	Polygalaceae	Xanthophyllum	discolor Chod.	BS04	XANTDISC	me-la-do-ct-ph
299	Ulmaceae	Gironniera	subaequalis Planch.	BS04	GIROSUBA	me-la-do-ct-ph
300	Ulmaceae	Gironniera	nervosa Planch.	BS04	GIRONERV	no-la-do-ct-ph
301	Elaeocarpaceae	Elaeocarpus	stipularis Blume	BS04	ELAESTIP	me-la-do-ct-ph
302	Meliaceae	Dysoxylum	excelsum Bl.	BS04	DYSOEXCE	no-la-do-ph
303	Sterculiaceae	Scaphium	macropodum (Miq.) Beumee.	BS04	SCAPMACR	pl-la-do-ph
304	Sapotaceae	Palaquium	dasyphyllum (de Vriese) Pierre ex Dubard.	BS04	PALADASY	no-la-do-ph
305	Connaraceae	Agelaea	macrophylla (Zoll.) Leenh.	BS04	AGELMACR	me-la-do-ph-li
306	Dipterocarpaceae	Parashorea	malaanonan (Blco.) Merr.	BS04	PARAMALA	me-la-do-ct-ph
307	Verbenaceae	Teijsmanniodendron	coriaceum (C.B. Clarke) Kosterm.	BS04	TEIJCORI	no-la-do-ct-ph
308	Annonaceae	Goniothalamus	macrophyllus (Bl.) Hook.f. & Thoms.	BS04	GONIMACR	me-la-do-ct-ph
309	Rhizophoraceae	Gynotroches	axillaris Blume	BS04	GYNOAXIL	no-la-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
310	Euphorbiaceae	Glochidion	sp.	BS04	GLOCSPP.	me-la-do-ph
311	Annonaceae	Melodorum	kentii (Bl.) Miq.	BS04	MELOKENT	mi-la-do-ph-li
312	Lauraceae	Actinodaphne	glomerata (Bl.) Nees.	BS04	ACTIGLOM	me-la-do-ct-ph
313	Burseraceae	Dacryodes	rugosa (Bl.) H.J. Lam	BS04	DACRRUGO	no-la-do-ct-ph
314	Myrtaceae	Syzygium	splendens (Bl.) Merr.	BS04	SYZYSPLE	no-la-do-ph
315	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS04	GALEFILI	me-la-do-ct-ph
316	Connaraceae	Connarus	sp.	BS04	CONNSPP.	mi-la-do-ph-li
317	Dilleniaceae	Dillenia	obovata (Bl.) Hogl.	BS04	DILLOBLO	pl-la-do-ph
318	Dipterocarpaceae	Shorea	multiflora (Burck.) Sym.	BS04	SHORMULT	no-la-do-ct-ph
319	Meliaceae	Aglaia	dookoo Griff.	BS04	AGLADOOK	pl-la-do-ct-ph
320	Annonaceae	Uvaria	hirsuta Jack.	BS04	UVARHIRS	no-la-do-ph-li-ad
321	Apocynaceae	Hunteria	zeylanica (Retz.) Gardn.	BS04	HUNTZEYL	mi-la-do-ph-li
322	Fabaceae	Phanera	sp.	BS04	PHANSPP.	no-la-do-ph-li
323	Euphorbiaceae	Aporusa	grandistipula Merr.	BS04	APORGRAN	me-la-do-ct-ph
324	Myristicaceae	Horsfieldia	subglobosa (Miq.) Warb.	BS04	HORSSUBG	me-la-do-ph
325	Arecaceae	Calamus	perakensis Becc.	BS04	CALAPERA	me-la-do-ro-pv-hc
326	Arecaceae	Calamus	sp3.	BS04	CALASPP3	me-la-do-ro-pv-ph-li
327	Lauraceae	Litsea	confusa K.et V.	BS04	LITSCONF	me-la-do-ct-ph
328	Ebenaceae	Diospyros	rigida Hiern.	BS04	DIOSRIGI	me-la-do-ph
329	Melastomataceae	Pternandra	gaelata (Cogn.) Ridl.	BS04	PTERGAEL	me-la-do-ph
330	Arecaceae	Licuala	spinosa Wurmb.	BS04	LICUSPIN	ma-la-do-ro-pv-hc
331	Rhamnaceae	Ventilago	dichotoma (Blanco) Merr.	BS04	VENTDICH	mi-la-do-ph-li
332	Myrsinaceae	Ardisia	sp1.	BS04	ARDISPP1	me-la-do-ct-ph
333	Burseraceae	Santiria	apiculata Benn.	BS04	SANTAPIC	no-la-do-ct-ph
334	Rhizophoraceae	Anisophylla	disticha (Jack.) Baill.	BS04	ANISDIST	na-la-do-ct-ph
335	Dilleniaceae	Tetracera	scandens (L.) Merr.	BS04	TETRSCAN	no-la-do-ph-li
336	Fabaceae	Actinodaphne	procera Nees.	BS04	ACTIPROC	me-la-do-ct-ph
337	Rubiaceae	Lasianthus	scabridus King & Gamble	BS04	LASISCAB	me-la-do-ct-ph
338	Polygalaceae	Xanthophyllum	incertum (Bl.) Meijden.	BS04	XANTINCE	no-la-do-ct-ph
339	Euphorbiaceae	Aporusa	lucida (Miq.) Airy Shaw.	BS04	APORLUCI	no-la-do-ct-ph
340	Aquifoliaceae	Ilex	cymosa Bl.	BS04	ILEXCYMO	no-la-do-ct-ph
341	Fagaceae	Lithocarpus	elegans (Bl.) Hattus. ex Soepadmo	BS04	LITHELEG	me-la-do-ct-ph
342	Rubiaceae	Pavetta	sylvatica Bl.	BS04	PAVESYLV	me-la-do-ct-ph
343	Icacinaceae	Sarcostigma	paniculata Pierre	BS04	SARCPANI	me-la-do-ph-li
344	Fabaceae	Spatholobus	ferrugineus (Zoll.) Bth.	BS04	SPATFERR	me-la-do-ph-li
345	Fabaceae	Sindora	wallichii Graham ex Benth.	BS04	SINDWALL	no-la-do-ph
346	Sapindaceae	Nephelium	uncinatum Radlk ex P.W. Leenhouts	BS04	NEPHUNCI	no-la-do-ct-ph
347	Burseraceae	Santiria	oblongifolia Bl.	BS04	SANTOBLO	no-la-do-ct-ph-ad
348	Dipterocarpaceae	Hopea	mengarawan Miq.	BS04	HOPEMENG	mi-la-do-ph-ad
349	Dipterocarpaceae	Shorea	ovalis (Korth.) Bl.	BS04	SHOROVAL	me-la-do-ph
350	Rubiaceae	Gaertnera	vaginans (DC.) Merr.	BS04	GAERVAGI	pl-la-do-ph
351	Fabaceae	Spatholobus	maingayi Prain	BS04	SPATMAIN	me-la-do-ph-li
352	Annonaceae	Polyalthia	lateriflora (Bl.) King	BS04	POLYLATE	me-la-do-ph
353	Piperaceae	Piper	ungaramense DC.	BS04	PIPEUNGA	no-la-do-su-hc-ad-ep
354	Dipterocarpaceae	Shorea	acuminata Dyer.	BS04	SHORACUM	mi-la-do-ph
355	Euphorbiaceae	Pimeleodendron	papaveroides J.J.Smith.	BS04	PIMEPAPA	me-la-do-ph
356	Arecaceae	Pinanga	sp.	BS04	PINSSPP.	pl-la-do-ro-pv-ph
357	Myristicaceae	Knema	lunduensis (Sinclair) de Wilde	BS04	KNEMLUND	me-la-do-ph
358	Burseraceae	Dacryodes	rostrata (Blume) H.J. Lam	BS04	DACRROST	me-la-do-ph
359	Flagellariaceae	Hanguana	malayana (Jack.) Merr.	BS04	HANGMALA	no-la-do-ro-pv-hc-ad
360	Cluciaceae	Garcinia	celebica L.	BS04	GARCCELE	no-la-do-ph
361	Rubiaceae	Urophyllum	arboreum Korth.	BS04	UROPARBO	no-la-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
362	Liliaceae	Pleomele	elliptica (Thunb.) N.E. Br.	BS04	PLEOELLI	no-la-do-ro-pv-hc-ad
363	Myrsinaceae	Labisia	acuta Ridl.	BS04	LABIACUT	mi-la-do-hc
364	Zingiberaceae	Globba	paniculata L.	BS04	GLOBPANI	no-ve-do-pv-hc-ad
365	Pandanaceae	Pandanus	sp1.	BS04	PANDSPP1	me-co-do-ro-pv-hc-ad
366	Adiantaceae	Syngramma	walichii Hook.	BS04	SYNGWALL	no-la-do-fi-hc-ad
367	Thelipteridaceae	Pteumatopteris	callosa (Bl.) Nakai	BS04	PTEUCALL	na-la-do-ro-fi-hc-ad
368	Myrsinaceae	Labisia	pumila (Bl.) F. Vill	BS04	LABIPUMI	no-la-do-su-hc-ad
369	Fabaceae	Koompassia	malaccensis Maing. ex Benth	BS05	KOOMMALA	mi-co-do-ph
370	Dipterocarpaceae	Shorea	macroptera Dyer	BS05	SHORMACR	no-co-do-ph
371	Clusiaceae	Calophyllum	molle King	BS05	CALOMOLL	me-la-do-ph
372	Menispermaceae	Fibraurea	cf. chloroleuca Miers	BS05	FIBRCHLO	no-la-do-ph-li
373	Meliaceae	Aglaia	ganggo Miq.	BS05	AGLAGANG	pl-la-do-ph
374	Clusiaceae	Garcinia	dioica Blume	BS05	GARCDIOI	mi-la-do-ph
375	Ulmaceae	Gironniera	nervosa Planch	BS05	GIRONERV	me-la-do-ct-ph
376	Lauraceae	Actinodaphne	sp.	BS05	ACTISPP.	no-la-do-ct-ph
377	Euphorbiaceae	Aporusa	subcaudata Merr.	BS05	APORSUBC	no-la-do-ct-ph
378	Euphorbiaceae	Phyllanthus	sp.	BS05	PHYLSPP.	na-la-do-ct-ph
379	Dipterocarpaceae	Shorea	acuminata Dyer	BS05	SHORACUM	no-la-do-ct-ph
380	Lauraceae	Litsea	sp.	BS05	LITSSPP.	me-la-do-ct-ph
381	Burseraceae	Santiria	oblongifolia Blume	BS05	SANTOBLO	me-la-do-ph
382	Fabaceae	Milletia	sericea (Vent.) Wight & Arn.	BS05	MILLSERI	no-la-do-ph-li
383	Annonaceae	Xylopia	malayana Hook.f. & Thoms.	BS05	XYLOMALA	mi-la-do-ct-ph
384	Fabaceae	Spatholobus	ferrugineus (Zoll. & Mor.) Benth.	BS05	SPHAFERR	me-la-do-ph-li
385	Zingiberaceae	Hornstedtia	sp.	BS05	HORNSPP.	pl-la-do-su-hc-ad
386	Myrsinaceae	Labisia	acuta Ridley	BS05	LABIACUT	no-la-do-hc-ad
387	Orchidaceae	Tropidia	sp.	BS05	TROPSPP.	mi-la-do-pv-hc
388	Flagellariaceae	Hanguana	malayana (Jack) Merr	BS05	HANGMALA	me-co-do-ro-su-hc-ad
389	Arecaceae	Calamus	sp.	BS05	CALASPP.	me-la-do-ro-pv-ch-li
390	Icacinaceae	Gonocaryum	littorale (Bl.) Sleum	BS05	GONOLITT	me-la-do-ch
391	Myristicaceae	Knema	intermedia (Bl.) Warb.	BS05	KNEMINTE	me-la-do-ct-ph
392	Sterculiaceae	Scaphium	macropodum (Miq.) Beumee ex. K. Heyne	BS05	SCAPMACR	pl-la-do-ph
393	Fabaceae	Phanera	kockiana Benth.	BS05	PHANKOCK	no-pe-do-ph-li
394	Myrtaceae	Syzygium	fastigiatum (Blume) Merrill & Perry	BS05	SYZYFAST	no-la-do-ph
395	Myrsinaceae	Ardisia	sp.	BS05	ARDISPP.	me-la-do-ct-ph
396	Lauraceae	Litsea	sp.	BS05	LITSSPP.	pl-la-do-ph
397	Sapotaceae	Palaquium	obovatum (Griff.) Engl.	BS05	PALAOBOV	me-la-do-ph
398	Fagaceae	Lithocarpus	sp.	BS05	FAGASPP.	me-la-do-ct-ph
399	Euphorbiaceae	Neoscortechinia	kingii (Hook.f.) Pax & K. Hoffm.	BS05	NEOSKING	no-la-do-ph
400	Connaraceae	Agelaea	borneensis (Hook.f.) Merr.	BS05	AGELBORN	mi-la-do-ph-li
401	Euphorbiaceae	Baccaurea	motleyana Muell.Arg.	BS05	BACCMOTL	me-la-do-ph
402	Dilleniaceae	Tetracera	cf. scandens (L.) Merrill	BS05	TETRSCAN	me-la-do-ph-li
403	Moraceae	Streblus	sp.	BS05	STRESPP.	mi-la-do-ph-li
404	Myristicaceae	Knema	latericia Elmer	BS05	KNEMLATE	me-la-do-ct-ph
405	Dipterocarpaceae	Shorea	ovalis (Korth.) Blume	BS05	SHOROVAL	me-la-do-ct-ph
406	Euphorbiaceae	Aporusa	sp.	BS05	APORSPP.	me-la-do-ph
407	Annonaceae	Uvaria	purpurea Blume	BS05	UVARPURP	pl-la-do-ph-li
408	Clusiaceae	Garcinia	scortechinii King	BS05	GARCSCOR	mi-la-do-ct-ph
409	Burseraceae	Santiria	apiculata A.W. Benn.	BS05	SANTAPIC	no-la-do-ph
410	Clusiaceae	Mesua	beccariana (Baill.) Kosterm.	BS05	MESUBECC	no-la-do-ph
411	Celastraceae	Salacia	macrophylla Blume	BS05	SALAMACR	mi-la-do-ct-ph
412	Burseraceae	Santiria	oblongifolia Blume	BS05	SANTOBLO	no-la-do-ph
413	Clusiaceae	Calophyllum	pulcherrimum Wall.	BS05	CALOPULC	mi-co-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
414	Olacaceae	Ochanostachys	amentacea Mast.	BS05	OCHAAMEN	no-la-do-ph
415	Sapotaceae	Palaquium	gutta (Hook.f.) Baillon	BS05	PALAGUTT	no-la-do-ph-ad
416	Loganiaceae	Strychnos	sp.	BS05	STRYSPP.	no-la-do-ph-li
417	Sterculiaceae	Leptonichia	heteroclita Kurz	BS05	LEPTHETE	no-la-do-ct-ph
418	Rubiaceae	Pavetta	montana Reinw. ex Blume	BS05	PAVEMONT	no-la-do-ch
419	Sapotaceae	Planchonella	cf. duclitan (Blanco) Bakh.f.	BS05	PLANDUCL	no-la-do-ct-ph
420	Anacardiaceae	Mangifera	magnifica K.M. Kochummen	BS05	MANGMAGN	me-co-do-ph
421	Arecaceae	Daemonorops	sp.	BS05	DAEMSPP.	me-la-do-ro-pv-ph-li-ad
422	Arecaceae	Licuala	ferruginea Becc.	BS05	LICUFERR	pl-la-do-ro-pv-hc
423	Rubiaceae	Gardenia	anisophylla Jack ex Roxb.	BS05	GARDANIS	me-la-do-ph
424	Polygalaceae	Xanthophyllum	incertum (Bl.) R. van der Meijden	BS05	XANTINCE	me-la-do-ct-ph
425	Euphorbiaceae	Drypetes	longifolia Pax & Hoffm.	BS05	DRYPLONG	me-la-do-ct-ph
426	Arecaceae	Areca	sp.	BS05	ARECSPP.	me-co-do-ro-pv-hc-ad
427	Fabaceae	Indet 1	(empty)	BS05	INDE(EMP	mi-pe-do-ph-li
428	Apocynaceae	Willughbeia	coriacea Wall.	BS05	WILLCORI	no-la-do-ph-li
429	Polygalaceae	Xanthophyllum	sp.	BS05	XANTSPP.	no-la-do-ct-ph
430	Burseraceae	Dacryodes	costata (A.W. Been.) H.J. Lam	BS05	DACRCOST	me-la-do-ct-ph
431	Annonaceae	Cyathoxalyx	bancanus Boerl.	BS05	CYATBANC	pl-la-do-ph
432	Clusiaceae	Calophyllum	soulattri Burm.f.	BS05	CALOSOUL	me-la-do-ph
433	Annonaceae	Goniothalamus	macrophyllus (Bl.) Hook.f. & Thoms.	BS05	GONIMACR	me-la-do-ct-ph
434	Flacourtiaceae	Hydnocarpus	kunstleri (King) Warb.	BS05	HYDNKUNS	no-la-do-ct-ph
435	Euphorbiaceae	Coelodepas	brevives Merrill	BS05	COELBREV	no-la-do-ph
436	Rubiaceae	Gardenia	anisophylla Jack ex Roxb.	BS05	GARDANIS	pl-la-do-ct-ph
437	Rosaceae	Prunus	arborea (Blume) Kalkman	BS05	PRUNARBO	me-la-do-ph
438	Symplocaceae	Symplocos	sp.	BS05	SYMPSPP.	no-la-do-ph
439	Liliaceae	Dracaena	angustifolia Roxb.	BS05	DRACANGU	me-co-do-ro-su-pv-hc-ad
440	Dilleniaceae	Dillenia	ovata Wall. ex Hook.f. & Thoms.	BS05	DRACOVAT	pl-la-do-ct-ph
441	Euphorbiaceae	Antidesma	stipulare Blume	BS05	ANTISTIP	no-la-do-ct-ph
442	Annonaceae	Indet 2	(empty)	BS05	INDE(EMP	mi-la-do-ph-li
443	Elaeocarpaceae	Elaeocarpus	petiolatus (Jack) Wall.	BS05	ELAEPETI	me-la-do-ph
444	Lauraceae	Litsea	firma (Bl.) Hook.f.	BS05	LITSFIRM	me-la-do-ct-ph
445	Gnetaceae	Gnetum	cuspidatum Blume	BS05	GNETCUSP	no-la-do-ph-li
446	Fabaceae	Parkia	sumatrana Miq.	BS05	PARKSUMA	na-la-do-ct-ph
447	Icacinaceae	Indet 3	(empty)	BS05	INDE(EMP	me-la-do-ph-li
448	Rhizophoraceae	Anisophylla	disticha (Jack) Baillon	BS05	ANISDIST	na-la-do-ct-ph
449	Lauraceae	Litsea	accendens (Bl.) Boerl.	BS05	LITSACCE	me-la-do-ct-ph
450	Fabaceae	Sindora	leiocarpa Backer ex K. Heyne	BS05	SINDLEIO	no-la-do-ph
451	Clusiaceae	Calophyllum	sp.	BS05	CALOSPP.	me-la-do-ct-ph
452	Clusiaceae	Garcinia	parvifolia (Miq.) Miq.	BS05	GARCPARV	me-la-do-ct-ph
453	Dipterocarpaceae	Parashorea	lucida Kurz	BS05	PARALUCI	me-la-do-ph
454	Myrtaceae	Syzygium	densiflorum Brongn. & Gris	BS05	SYZYDENS	me-la-do-ph
455	Myrtaceae	Syzygium	cf. acuminatissimum DC.	BS05	SYZYACUM	mi-la-do-ct-ph
456	Sapotaceae	Pouteria	sp.	BS05	POUTSPP.	me-la-do-ct-ph
457	Euphorbiaceae	Pimeleodendron	papaveroides J.J. Smith	BS05	PIMEPAPA	me-la-do-ct-ph
458	Lauraceae	Dehaasia	firma Blume	BS05	DEHAFIRM	me-co-do-ct-ph
459	Lauraceae	Phoebe	elliptica Blume	BS05	PHOEELLI	pl-la-do-ph
460	Rosaceae	Parinari	sp.	BS05	PARISPP.	mi-la-do-ct-ph
461	Fabaceae	Fordia	johorensis T.C. Whitm.	BS05	FORDJOHO	mi-la-do-ct-ph
462	Rubiaceae	Lasianthus	scabridus King & Gamble	BS05	LASISCAB	me-la-do-ch
463	Anacardiaceae	Melanochyla	sp.	BS05	MELASPP.	pl-la-do-ct-ph
464	Fabaceae	Dialium	sp.	BS05	DIALSPP.	mi-co-do-ct-ph
465	Vittaria Group	Vittaria	sp.	BS05	VITTSPP.	mi-ve-do-fi-hc-ad-ep

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
466	Arecaceae	Licuala	ferruginea Becc.	BS05	LICUFERR	ma-la-do-ro-pv-ph
467	Burseraceae	Santiria	tomentosa Blume	BS05	SANTTOMR	me-la-do-ph
468	Myrtaceae	Syzygium	sp.	BS05	SYZYSPP.	me-la-do-ct-ph-ad
469	Fabaceae	Archidendron	jiringa (Jack) I. Nielsen	BS05	ARCHJIRI	mi-la-do-ct-ph
470	Sterculiaceae	Sterculia	subpeltata Blume	BS05	STERSUBP	me-la-do-ct-ph
471	Myristicaceae	Horsfieldia	grandis (Bl.) Warb.	BS05	HORSGRAN	pl-la-do-ph
472	Thymelaeaceae	Trigoniastrum	hypoleucum Miq.	BS05	TRIGHYPO	no-la-do-ph
473	Euphorbiaceae	Diospyros	sp.	BS05	DIOSSPP.	me-la-do-ph
474	Araceae	Santiria	oblongifolia Blume	BS05	SANTOBLO	pl-la-do-ph
475	Thymelaeaceae	Gonystylus	bancanus (Miq.) Kurz	BS05	GONYBANC	me-la-do-ct-ph
476	Euphorbiaceae	Ptychopyxis	kingii Ridley	BS05	PTYCKING	me-la-do-ph
477	Melastomataceae	Pternandra	arzurea (Bl.) Burk.	BS05	PTERARZU	mi-la-do-ph
478	Euphorbiaceae	Fahrenheitia	pendula (Hassk.) Airy Shaw	BS05	FAHRPEND	me-la-do-ct-ph
479	Araceae	Epipremnum	cf. grandifolium Engl.	BS05	EPIPGRAN	ma-la-do-su-hc-li-ad-ep
480	Myristicaceae	Gymnacranthera	forbesii (King) Warb.	BS05	GYMNFORB	no-la-do-ph
481	Melastomataceae	Memecylon	myrsinoides Blume	BS05	MEMEMYRS	mi-la-do-ph
482	Liliaceae	Dracaena	elliptica Thunb.	BS05	DRACELLI	mi-la-do-pv-ch
483	Melastomataceae	Memecylon	edule Roxb.	BS05	MEMEEDUL	no-la-do-ph
484	Verbenaceae	Teijsmanniodendron	coriaceum (C.B.Clarke) Kosterm.	BS05	TEIJCORI	mi-la-do-ct-ph
485	Sterculiaceae	Leptonichia	heteroclita Kurz	BS05	LEPTHETE	no-pe-do-ct-ph
486	Ulmaceae	Trema	cannabina Lour.	BS06	TREMCANN	mi-la-do-ct-ph
487	Euphorbiaceae	Macaranga	javanica M.A.	BS06	MACAJAVA	me-la-do-ct-ph
488	Euphorbiaceae	Macaranga	caladifolia M.A.	BS06	MACAGIGA	no-la-do-ct-ph
489	Euphorbiaceae	Macaranga	gigantea M.A.	BS06	MACAGIGA	ma-pe-do-ct-ph
490	Melastomataceae	Mikania	cordata (Burm.f.) B.L. Robinson	BS06	MIKACORD	no-la-do-hc-li
491	Asteraceae	Eupatorium	odoratum L.F.	BS06	EUPAODOR	no-pe-do-ch
492	Cyperaceae	Scleria	purpurascens Steud.	BS06	SCLEPURP	me-la-do-pv-hc
493	Dennstaedtiaceae	Pteridium	aquilinum Kuhn.	BS06	PTERAQUI	le-la-do-fi-hc-ad
494	Asteraceae	Blumea	lacera (Burm.f.) DC.	BS06	BLUMLACE	mi-ve-do-ch
495	Melastomataceae	Melastoma	affine D.Don.	BS06	MELAAFFI	mi-la-do-ch
496	Davallia Group	Nephrolepis	biserrata Schott.	BS06	NEPHBISE	mi-la-do-fi-hc-ad
497	Rubiaceae	Uncaria	sclerophylla (Hunter) Roxb.	BS06	UNCASCLE	mi-la-do-ph-li
498	Rubiaceae	Uncaria	glabrata DC.	BS06	UNCAGLAB	no-la-do-ph-li
499	Poaceae	Centotheca	lappacea (L.) Desvaux	BS06	CENTLAPP	mi-la-do-ro-pv-hc
500	Asclepiadaceae	Gynanchum	ovalifolium Wight.	BS06	GYNAOVAL	no-ve-do-ph-li
501	Annonaceae	Artabotrys	sp1.	BS06	ARTASPP1	mi-la-do-ph-li
502	Meliaceae	Sandoricum	koetjape (Burm.f.) Merr.	BS06	SANDKOET	no-la-do-ph
503	Poaceae	Axonophus	compressus (Swartz) Beauv.	BS06	AXONCOMP	mi-ve-do-pv-hc-ad
504	Poaceae	Imperata	cylindrica (nees.) C.E. Hubb.	BS06	IMPECYLI	me-ve-do-pv-hc-ad
505	Solanaceae	Solanum	torvum Swartz.	BS06	SOLATORV	me-la-do-ch
506	Lecythidaceae	Barringtonia	scortechinii King.	BS06	BARRSCOR	me-la-do-ct-ph
507	Euphorbiaceae	Bridellia	monoica Merr.	BS06	BRIDMONO	mi-la-do-ch
508	Connaraceae	Agelaea	trinervis (Lianus.) Merr.	BS06	AGELTRIN	me-la-do-ph-li
509	Sapindaceae	Xerospermum	noronhianum Bl.	BS06	XERONORO	no-la-do-ph
510	Blechnaceae	Stenochlaena	palustris Bedd.	BS06	STENPALU	mi-la-do-fi-hc-li
511	Poaceae	Panicum	sp.	BS06	PANISPP.	mi-la-do-pv-hc
512	Euphorbiaceae	Endospermum	diadenum (miq.) Airy Shaw	BS06	ENDODIAD	me-la-do-ct-ph
513	Moraceae	Ficus	variegata Bl.	BS06	FICUVARI	me-la-do-ct-ph
514	Connaraceae	Connarus	semidecandrus Jack..	BS06	CONNSEMI	mi-la-do-ph-li
515	Fabaceae	Archidendron	bubalinum (Jack.) Nielsen.	BS06	ARCHBUBA	mi-la-do-ct-ph
516	Euphorbiaceae	Macaranga	pruinosa M.A.	BS06	MACAPRUI	me-la-do-ph
517	Olacaceae	Ochanostachys	amentacea Mast.	BS06	OCHAAMEN	no-la-do-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
518	Adiantaceae	Pityrogramma	calomelanos Link.	BS06	PITYCALO	le-la-do-fi-hc-ad
519	Ulmaceae	Trema	orientalis (L.) Bl.	BS06	TREMORIE	mi-la-do-ct-ph
520	Celastraceae	Kokoona	ochracea (Elmer.) Merr.	BS06	KOKOOCHR	mi-pe-do-ct-ph
521	Dilleniaceae	Dillenia	borneensis Hogl.	BS06	DILLBORN	me-la-do-ph
522	Ulmaceae	Gironniera	hirta Ridl.	BS06	GIROHIRT	no-la-do-ph
523	Zingiberaceae	Alpinia	sp.	BS06	ALPISPP.	ma-la-do-su-pv-hc-ad
524	Ancistrocladaceae	Ancistrocladus	tectorius (Lour.) Merr.	BS06	ANCITECT	me-ve-do-ph-li
525	Moracaceae	Ficus	grossularioides Burm.f.	BS06	FICUGROS	me-la-do-ct-ph
526	Asteraceae	Blumea	balsamifera (L.) DC.	BS06	BLUMBALS	no-la-do-hc
527	Sapindaceae	Mischocarpus	pentapetalus (Roxb.) Radlk.	BS06	MISCPENT	no-la-do-ph
528	Fabaceae	*Paraserianthes*	falcataria (l.) fosb.	BS06	PARAFALC	na-ve-do-ct-ph
529	Fabaceae	*Paraserianthes*	falcataria (L.) I. Nielsen	BS07	PARAFALC	na-ve-do-ct-ph
530	Poaceae	Cyrtococcum	accrescens Stapf	BS07	CYRTACCR	mi-co-do-hc-ad
531	Asteraceae	Mikania	cordata (Burm.f.) B.L. Robinson	BS07	MIKACORD	mi-co-do-hc-li-ad
532	Nephrolepis Group	Nephrolepis	exaltata (L.) Schott	BS07	NEPHEXAL	mi-ve-do-fi-hc-ad
533	Verbenaceae	Callicarpa	longifolia Lam.	BS07	CALLLONG	no-la-do-ch
534	Poaceae	Paspalum	conjugatum Berg.	BS07	PASPCONJ	mi-co-do-pv-hc-ad
535	Melastomataceae	Melastoma	affine D. Don	BS07	MELAAFFI	mi-la-do-ch
536	Rubiaceae	Mussaenda	frondosa Linn.	BS07	MUSSFRON	no-ve-do-ch
537	Cyperaceae	Scleria	purpurascens Steud.	BS07	SCLEPURP	no-co-do-pv-hc
538	Fabaceae	Archidendron	ellipticum (Blume) I. Nielsen	BS07	ARCHELLI	no-la-do-ch
539	Euphorbiaceae	Croton	argyratus Blume	BS07	CROTARGY	me-pe-do-ct-ph
540	Euphorbiaceae	Macaranga	gigantea (Rchb.F.& Zoll.) Muell. Arg.	BS07	MACAGIGA	ma-pe-do-ch
541	Euphorbiaceae	Glochidion	rubrum Blume	BS07	GLOCRUBR	mi-la-do-ch
542	Meliaceae	Dysoxylum	cf. alliaceum Blume	BS07	DYSOALLI	me-ve-do-ch
543	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS07	STENPALU	mi-la-do-fi-hc-ad-ep
544	Connaraceae	Cnestis	platantha Griff.	BS07	CNESPLAN	na-ve-do-ph-li
545	Rubiaceae	Neonauclea	obtusa (Bl.) Merrill	BS07	NEONOBTU	me-la-do-ch
546	Euphorbiaceae	Sapium	baccatum Roxb.	BS07	SAPIBACC	mi-la-do-ch
547	Fabaceae	Fordia	johorensis T.C. Whitm.	BS07	FORDJOHO	mi-la-do-ch
548	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS07	OTTONODO	mi-la-do-pv-hc-ad
549	Asteraceae	Mikania	cordata (burm.f.) b.l. robinson	BS07	MIKACORD	no-la-do-hc-li-ad
550	Poaceae	Imperata	cylindrica (l.) beauv.	BS07	IMPECYLI	me-ve-do-hc-ad
551	Dilleniaceae	Tetracera	akara (burm.f.) merrill	BS07	TETRAKAR	no-la-do-ph-li-ad
552	Rubiaceae	Uncaria	glabrata (Blume) DC.	BS07	UNCAGLAB	mi-la-do-ph-li
553	Amaryllidaceae	Curculigo	villosa (Kurz) Wall. ex Merrill	BS07	CURCVILO	no-ve-do-de-pv-cr
554	Ulmaceae	Trema	orientalis (L.) Blume	BS07	TREMORIE	no-ve-do-ch
555	Asteraceae	Erigeron	sumatransis Retz.	BS07	ERIGSUMA	na-la-do-hc
556	Asteraceae	Blumea	balsamifera (L.) Blume	BS07	BLUMBALS	no-ve-do-hc
557	Moraceae	Ficus	variegata Blume	BS07	FICUVARI	no-co-do-ct-ph
558	Ulmaceae	Trema	orientalis (L.) Blume	BS07	TREMORIE	no-la-do-ct-ph
559	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS07	GALEFILI	no-la-do-ch
560	Convolvulaceae	Merremia	cf. peltata (L.) Merrill	BS07	MERRPELT	me-ve-do-hc-li
561	Leeaceae	Leea	indica (Burm.f.) Merr.	BS07	LEEAINDI	me-la-do-ch
562	Celastraceae	Salacia	macrophylla Blume	BS07	SALAMACR	pl-pe-do-ch
563	Fabaceae	Mezoneurum	sp.	BS07	MEZOSPP.	le-la-do-hc-li
564	Fabaceae	Phanera	pyrrhaneura Benth.	BS07	PHANPYRR	me-la-do-ph-li
565	Poaceae	Panicum	incomtum Trin.	BS07	PANIINCO	me-la-do-pv-hc-ad
566	Myrsinaceae	Embelia	ribes Burm. F.	BS07	EMBERIBE	me-la-do-ph-li
567	Annonaceae	Uvaria	sp.	BS07	UVARSPP.	me-ve-do-ph-li
568	Dilleniaceae	Tetracera	indica (Houtt. et Christm. & Panz.) Merrill	BS07	TETRINDI	me-co-do-ph-li
569	Annonaceae	Desmos	chinensis Lour.	BS07	DESMCHIN	me-ve-do-ph-li

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
570	Vitaceae	Cissus	adnata Roxb.	BS07	CISSADNA	me-ve-do-ph-li
571	Fabaceae	Milletia	sericea (Vent.) Wight & Arn.	BS07	MILLSERI	me-ve-do-ph-li
572	Icacinaceae	Iodes	cirrhosa Turcz.	BS07	LODECIRR	me-la-do-hc-li-ad
573	Euphorbiaceae	Croton	caudatus Geisel.	BS07	CROTCAUD	me-la-do-ch
574	Ancistrocladiaceae	Ancistrocladus	tectorius (Lour.) Merr.	BS07	ANCITECT	me-ve-do-ch
575	Euphorbiaceae	Macaranga	hypoleuca (Rchb.F. & Zoll.) Muell. Arg.	BS07	MACAHYPO	me-ve-do-ch
576	Ebenaceae	Dyospyros	siamang Bakh.	BS07	DYOSSIAM	me-ve-do-ph-li
577	Euphorbiaceae	Hevea	brasiliensis (Willd. ex A Juss.) M.A.	BS08	HEVEBRAS	no-ve-do-ct-ph
578	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS08	STECPALU	no-la-do-fi-hc-ad
579	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS08	STECPALU	no-la-do-hc-li-ad
580	Fabaceae	Fordia	johorensis T.C. Whitm.	BS08	FORDJOHO	mi-la-do-ch
581	Gleicheniaceae	Dicranopteris	linearis (Burm.f.) Underw.	BS08	DICRLINE	na-la-do-fi-hc-li-ad
582	Rhamnaceae	Ventilago	oblongifolia Blume	BS08	VENTOBLO	no-ve-do-ph-li
583	Thymelaeaceae	Enkleia	malaccensis Griff.	BS08	ENKLMALA	mi-la-do-ph-li
584	Connaraceae	Agelaea	trinervis (Lianos) Merr.	BS08	AGELTRIN	mi-la-do-ph-li
585	Rubiaceae	Coffea	canephora Pierre var. robusta (L.) Cheval	BS08	COFFCANE	me-la-do-ch
586	Menispermaceae	Limacia	scandens Lour.	BS08	LIMASCAN	no-la-do-ph-li
587	Fabaceae	Derris	sp1.	BS08	DERRSPP1	mi-ve-do-ph-li
588	Poaceae	Axonopus	compressus (Swartz) Beauv.	BS08	AXONCOMP	no-ve-do-pv-hc-ad
589	Asclepiadaceae	Telosma	accesdens (Blume) Backer	BS08	TELOACCE	no-la-do-ph-li
590	Nephrolepis Group	Nephrolepis	exaltata (L.) Schott	BS08	NEPHEXAL	na-la-do-fi-hc-ad
591	Rubiaceae	Gardenia	anisophylla Jack ex Roxb.	BS08	GARDANIS	me-la-do-ch
592	Liliaceae	Dracaena	elliptica Thunb.	BS08	DRACELLI	no-la-do-pv-ch
593	Piperaceae	Piper	ungaramense DC.	BS08	PIPEUNGA	no-ve-do-su-hc-li-ad-ep
594	Passifloraceae	Adenia	macrophylla (Bl.) Kds.	BS08	ADENMACR	no-ve-do-hc-li
595	Adiantum Group	Taenitis	blechnoides (Willd.) Sw.	BS08	TAENBLEC	no-la-do-fi-hc
596	Poaceae	Centotheca	lappacea (L.) Desvaux	BS08	CENTLAPP	mi-la-do-pv-hc-ad
597	Poaceae	Paspalum	conjugatum Berg.	BS08	PASPCONJ	no-co-do-pv-hc-ad
598	Poaceae	Imperata	cylindrica (L.) Beauv.	BS08	IMPECYLI	me-co-do-pv-hc-ad
599	Myrtaceae	Syzygyum	suringarianum (Koord. & Valeton) Amshoff	BS08	SYZYSURI	me-la-do-hc-ad
600	Tectaria Group	Tectaria	singaporeana (Wall. ex Hook. & Grev.) Copel	BS08	TECTSING	me-ve-do-pv-hc-ad
601	Apocynaceae	Willughbeia	sp.	BS08	WILLSPP.	mi-co-do-ph-li
602	Dilleniaceae	Dillenia	ovata Wall. ex Hook .f. & Thoms.	BS08	DILLOVAT	me-la-do-ch
603	Apocynaceae	Willughbeia	coriacea Wall.	BS08	WILLCORI	no-la-do-ph-li
604	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS08	OTTONODO	mi-co-do-pv-hc-ad
605	Annonaceae	Uvaria	littoralis (Blume) Blume	BS08	UVARLITT	no-la-do-ph-li
606	Euphorbiaceae	Glochidion	rubrum Blume	BS08	GLOCRUBR	mi-la-do-ch
607	Euphorbiaceae	Macaranga	trichocarpa (Rchb.f. & Zoll.) Muell. Arg.	BS08	MACATRIC	me-la-do-ch
608	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS08	GALEFILI	me-la-do-ch
609	Zingiberaceae	Hornstedtia	sp.	BS08	HORNSPP.	me-la-do-su-hc-ad
610	Dilleniaceae	Tetracera	scandens (L.) Merrill	BS08	TETRSCAN	no-ve-do-ph-li-ad
611	Myrtaceae	Syzygium	lineatum (DC.) Merrill & Perry	BS08	SYZYLINE	na-la-do-ph
612	Fabaceae	Phanera	kockiana Benth.	BS08	PHANKOCK	no-ve-do-ph-li
613	Euphorbiaceae	Mallotus	affinis Merrill	BS08	MALLAFFI	me-la-do-ch
614	Moraceae	Ficus	padana Burm.f.	BS08	FICUPADA	me-la-do-ch
615	Olacaceae	Ochanostachys	amentacea Mast.	BS08	OCHAAMEN	me-la-do-ch
616	Rubiaceae	Mussaenda	frondosa Linn.	BS08	MUSSFRON	no-la-do-ph-li
617	Moraceae	Ficus	variegata Blume	BS08	FICUVARI	me-la-do-ph-ad
618	Rhizophoraceae	Gynotroches	axillaris Blume	BS08	GYNOAXIL	no-la-do-ch
619	Clusiaceae	Garcinia	dioica Blume	BS08	GARCDIOI	no-la-do-ch
620	Euphorbiaceae	Macaranga	gigantea (Rchb.f. & Zoll.) Muell. Arg.	BS08	MACAGIGA	ma-la-do-ph-ad
621	Cyperaceae	Scleria	levis Retz.	BS08	SCLELEVI	mi-la-do-pv-hc

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
622	Verbenaceae	Clerodendron	fragans (Vent.) Willd.	BS08	CLERFRAG	me-la-do-ch
623	Fabaceae	Indet		BS08	INDET***	me-ve-do-ch
624	Myristicaceae	Knema	latericia Elmer	BS08	KNEMLATE	me-la-do-ch
625	Vitaceae	Nothocissus	spicifera (Griff.) A. Latif	BS08	NOTHSPIC	me-la-do-ph-li
626	Annonaceae	Melodorum	kentii Hook.f. & Thoms.	BS08	MELOKENT	mi-la-do-ph-li
627	Verbenaceae	Premna	sp.	BS08	PREMSPP.	no-la-do-ph-li
628	Ancistrocladaceae	Ancistrocladus	tectorius (Lour.) Merr.	BS08	ANCITECT	me-co-do-ch
629	Melastomataceae	Melastoma	affine D. Don	BS08	MELAAFFI	mi-la-do-ch
630	Icacinaceae	Gonocaryum	littorale (Bl.) Pax	BS08	GONOLITT	me-la-do-ch
631	Euphorbiaceae	Antidesma	stipulare Blume	BS08	ANTISTIP	no-la-do-ch
632	Ulmaceae	Gironniera	nervosa Planch	BS08	GIRONERV	me-ve-do-ct-ph
633	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS08	GALEFILI	no-la-do-ct-ph
634	Rubiaceae	Uncaria	sp.	BS08	UNCASPP.	me-la-do-ph-li
635	Rubiaceae	Chasalia	curviflora (Wall.) Thw.	BS08	CHASCURV	no-la-do-ch
636	Fabaceae	Archidendron	jiringa (Jack) I. Nielsen	BS08	ARCHJIRI	mi-la-do-ch
637	Sapindaceae	Nephelium	uncinatum Radlk ex P.W. Leenhouts	BS08	NEPHUNCI	no-ve-do-ch
638	Fabaceae	Derris	sp2.	BS08	DERRSPP2	no-la-do-ph-li
639	Clusiaceae	Garcinia	dioica Blume	BS08	GARCDIOI	mi-la-do-ch
640	Myrtaceae	Rhodamnia	cinerea Jack	BS08	RHODCINE	mi-la-do-ch
641	Sapotaceae	Palaquium	gutta (Hook.f.) Baillon	BS08	PALAGUTT	no-la-do-ch
642	Verbenaceae	Callicarpa	longifolia Lam.	BS08	CALLLONG	me-la-do-ch
643	Simaroubaceae	Eurycoma	longifolia Jack	BS08	EURYLONG	mi-la-do-ch
644	Connaraceae	Agelaea	sp.	BS08	AGELSPP.	me-la-do-ch-li
645	Rubiaceae	Gardenia	anishophylla jack ex roxb.	BS08	GARDANIS	me-la-do-ch
646	Euphorbiaceae	Macaranga	gigantea (Rchb.F. & Zoll.) Muell. Arg.	BS09	MACAGIGA	ma-la-do-ph-ad
647	Ulmaceae	Gironniera	nervosa Planch.	BS09	GIRONERV	me-la-do-ct-ph
648	Melastomataceae	Memecylon	paniculatum Jack	BS09	MEMEPANI	mi-la-do-ch
649	Euphorbiaceae	Ptychopxis	costata Miq.	BS09	PTYCCOST	me-la-do-ch
650	Clusiaceae	Calophyllum	soulattri Burm.f.	BS09	CALOSOUL	me-la-do-ch
651	Fabaceae	Phanera	sp.	BS09	PHANSPP.	no-la-do-ph-li
652	Burseraceae	Santiria	sp.	BS09	SANTSPP.	no-la-do-ch
653	Fabaceae	Phanera	kockiana Benth.	BS09	PHANKOCK	no-la-do-ph-li
654	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS09	STENPALU	no-la-do-fi-hc-ad
655	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS09	STENPALU	no-la-do-fi-hc-ad-ep
656	Lecythidaceae	Barringtonia	racemosa (L.) Sprng.	BS09	BARRRACE	no-la-do-ch
657	Nephrolepis Group	Nephrolepis	bisserata (Sw.) Schott	BS09	NEPHBISS	mi-la-do-fi-hc-ad
658	Rubiaceae	Mussaenda	frondosa Linn.	BS09	MUSSFRON	no-la-do-ph-li
659	Vitaceae	Nothocissus	spicifera (Griff.) A. Latif	BS09	NOTHSPIC	me-la-do-ph-li
660	Fabaceae	Fordia	johorensis T.C. Whitm.	BS09	FORDJOHO	mi-la-do-ch
661	Euphorbiaceae	Hevea	brasiliensis (Willd. ex A. Juss.) M.A.	BS09	HEVEBRAS	no-la-do-ct-ph
662	Euphorbiaceae	Hevea	brasiliensis (Willd. ex A. Juss.) M.A.	BS09	HEVEBRAS	mi-co-do-ct-ph
663	Euphorbiaceae	Koilodepas	brevipes Merrill	BS09	KOILBREV	no-la-do-ch
664	Fabaceae	Derris	sp2.	BS09	DERRSPP2	no-la-do-ph-li
665	Menispermaceae	Fibraurea	cf. chloroleuca Miers	BS09	FIBRCHLO	me-la-do-ph-li
666	Melastomataceae	Pachycentria	constricta (Blume) Blume	BS09	PACHCONS	no-la-do-su-hc-li-ad-ep
667	Annonaceae	Uvaria	macrophylla Roxb.	BS09	UVARMACR	me-la-do-ph-li
668	Ancistocladaceae	Ancistrocladus	tectorius (Lour.) Merr.	BS09	ANCITECT	me-la-do-ch
669	Connaraceae	Agelaea	trinervis (Lianos) Merr.	BS09	AGELTRIN	me-la-do-ph-li
670	Euphorbiaceae	Glochidion	philippicum (Cav.) C.B. Rob.	BS09	GLOCPHIL	no-la-do-ch
671	Poaceae	Centhoteca	lappacea (L.) Desvaux	BS09	CENTLAPP	mi-la-do-pv-hc
672	Euphorbiaceae	Indet		BS09	INDET***	me-la-do-ph
673	Gleicheniaceae	Dicranopteris	linearis (Burm.f.) Underw.	BS09	DICRLINE	na-la-do-fi-hc-li-ad

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
674	Poaceae	Imperata	cylindrica (L.) Beauv.	BS09	IMPECYLI	me-ve-do-pv-hc-ad
675	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS09	GALEFILI	me-la-do-ch
676	Fabaceae	Fordia	johorensis T.C. Whitm.	BS09	FORDJOHO	me-ve-do-ct-ph
677	Cyperaceae	Scleria	purpurascens Steud	BS09	SCLEPURP	me-co-do-hc-ad
678	Myrsinaceae	Labisia	pumila (Blume) f. Vill.	BS09	LABIPUMI	me-co-do-su-hc-ad
679	Rubiaceae	Gardenia	forsteniana Miq.	BS09	GARDFORS	me-la-do-ch
680	Apocynaceae	Urceola	brahysepala Hookf.	BS09	URCEBRAH	me-la-do-ph-li
681	Rhizophoraceae	Gynotroches	axillaris Blume	BS09	GYNOAXIL	no-la-do-ct-ph-ad
682	Fabaceae	Archidendron	jiringa (Jack) I. Nielsen	BS09	ARCHJIRI	me-la-do-ct-ph
683	Melastomataceae	Melastoma	affine D.Don	BS09	MELAAFFI	mi-la-do-hc
684	Ebenaceae	Diospyros	malam Bakh.	BS09	DIOSMALA	me-ve-do-ch
685	Poaceae	Panicum	sp.	BS09	PANISPP.	mi-la-do-pv-hc-ad
686	Fabaceae	Cassia	sp.	BS09	CASSSPP.	mi-la-do-ch
687	Euphorbiaceae	Homalanthus	populneus (Grisel.) Pax	BS09	HOMAPOPU	no-la-do-ch
688	Euphorbiaceae	Macaranga	gigantea (Rchb.F. & Zoll.) Muell. Arg.	BS09	MACAGIGA	me-la-do-ch
689	Verbenaceae	Clerodendron	deflexum Wall	BS09	CLERDEFL	me-la-do-ph-li
690	Tectaria Group	Tectaria	singaporeana (Wall. ex Hook.& Grev.) Copel	BS09	TECTSING	me-ve-do-fi-hc-ad
691	Rutaceae	Euodia	macrocarpa King	BS09	EUODMACR	me-la-do-ct-ph
692	Sapindaceae	Nephelium	uncinatum Radlk ex P.W. Leenhouts	BS09	NEPHUNCI	mi-la-do-ch
693	Fabaceae	Derris	sp1.	BS09	DERRSPP1	no-la-do-ph-li
694	Rubiaceae	Coffea	canephora Pierre (Linden ex De Wildem.) Cheval	BS09	COFFCANE	me-la-do-ch
695	Piperaceae	Piper	ungaramense DC.	BS09	PIPEUNGA	no-ve-do-su-hc-li-ad-ep
696	Dilleniaceae	Tetracera	scandens (L.) Merrill	BS09	TETRSCAN	me-la-do-ph-li
697	Anacardiaceae	Melanochyla	caesia (Bl.) Ding Hou	BS09	MELACAES	me-la-do-ch
698	Davallia Group	Davallia	solida (Forst.) Sw.	BS09	DAVASOLI	na-la-do-fi-hc-ad-ep
699	Schizaeaceae	Lygodium	circinnatum (Burm.f.) Sw.	BS09	LYGOCIRC	mi-la-do-fi-hc-li
700	Euphorbiaceae	Aporusa	lucida (Miq.) Airy Shaw	BS09	APORLUCI	me-la-do-ch
701	Myrsinaceae	Embelia	sp.	BS09	EMBESPP.	mi-la-do-ph-li
702	Connaraceae	Rourea	sp.	BS09	ROURSPP.	na-la-do-ph-li
703	Verbenaceae	Vitex	pinnata Linn.	BS09	VITEPINN	no-la-do-ch
704	Euphorbiaceae	Sapium	baccatum Roxb.	BS10	SAPIBACC	no-co-do-ph
705	Clusiaceae	Cratoxylum	sumatranum (Jack) Blume	BS10	CRATSUMA	me-la-do-ct-ph
706	Clusiaceae	Calophyllum	molle King	BS10	CALOMOLL	me-la-do-ct-ph
707	Moraceae	Ficus	ribes Reinw.	BS10	FICURIBE	me-la-do-ph
708	Elaeocarpaceae	Elaeocarpus	stipularis Blume	BS10	ELAESTIP	no-la-do-ct-ph
709	Piperaceae	Piper	caninum Blume	BS10	PIPECANI	mi-pe-do-su-hc-li-ad-ep
710	Fabaceae	Milletia	sericea (Vent.) Wight & Arn.	BS10	MILLSERI	me-la-do-ph-li
711	Rubiaceae	Ixora	sp.	BS10	IXORSPP.	no-la-do-ch
712	Euphorbiaceae	Aporusa	dioica (Roxb.) M.A.	BS10	APORDIOI	no-la-do-ct-ph
713	Loganaceae	Fagraea	recemosa Jack ex Wall.	BS10	FAGRRECE	me-la-do-ct-ph
714	Myristicaceae	Knema	laurina (Bl.) Warb.	BS10	KNEMLAUR	me-la-do-ct-ph
715	Euphorbiaceae	Glochidion	arborescens Blume	BS10	GLOCARBO	no-la-do-ct-ph
716	Nephrolepis Group	Nephrolepis	exaltata (L.) Schott	BS10	NEPHEXAL	mi-la-do-fi-hc-ad
717	Vitaceae	Tetrastigma	papillosum (Blume) Planch.	BS10	TETRPAPI	me-la-do-ph-li-ad
718	Fabaceae	Sphatolobus	ferrugineus (Zoll. & Mor.) Benth.	BS10	0	me-la-do-ph-li
719	Lauraceae	Lindera	lucida (Bl.) Boerl.	BS10	LINDLUCI	me-la-do-ct-ph
720	Verbenaceae	Clerodendrum	fragans (Vent.) Willd.	BS10	CLERFRAG	me-la-do-ph-li
721	Rhizophoraceae	Carallia	brachiata (Lour.) Merrill	BS10	CARABRAC	no-la-do-ct-ph
722	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS10	OTTONODO	mi-la-do-pv-hc-ad
723	Poaceae	Oplismenus	compositus (L.) Beauv.	BS10	OPLICOMP	mi-la-do-pv-hc-ad
724	Poaceae	Lophaterum	gracile Brongn.	BS10	LOPHGRAC	mi-la-do-pv-hc-ad
725	Euphorbiaceae	Macaranga	hypoleuca (Rchb.F. & Zoll.) Muell. Arg.	BS10	MACAHYPO	me-la-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
726	Euphorbiaceae	Bischofia	javanica Blume	BS10	BISCJAVA	no-la-do-de-ph
727	Connaraceae	Cnestis	palala (Lour.) Merr.	BS10	CNESPALA	na-la-do-ph-li
728	Rubiaceae	Psychotria	viridiflora Reinw. ex Blume	BS10	PSYCVIRI	no-la-do-ch
729	Poaceae	Centhotheca	lappacea (L.) Desvaux	BS10	CENTLAPP	mi-la-do-hc
730	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS10	OTTONODO	mi-la-do-hc
731	Euphorbiaceae	Macaranga	gigantea (Rchb.F. & Zoll.) Muell. Arg.	BS10	MACAGIGA	ma-la-do-ph
732	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS10	STENPALU	no-la-do-hc-li-ad-ep
733	Gleicheniaceae	Dicranopteris	linearis (Burm.f.) Underw.	BS10	DICRLINE	na-la-do-fi-hc-li-ad
734	Dilleniaceae	Tetracera	scandens (L.) Merrill	BS10	TETRSCAN	me-ve-do-ph-li
735	Commelinaceae	Forrestia	mollisima (Bl.) Kds.	BS10	FORRMOLL	me-la-do-ro-su-hc-ad
736	Schizaeaceae	Lygodium	circinnatum (Burm.f.) Sw.	BS10	LYGOCIRC	mi-la-do-ph-li
737	Theaceae	Eurya	acuminata DC.	BS10	EURYACUM	no-la-do-ct-ph
738	Meliaceae	Aglaia	ganggo Miq.	BS10	AGLAGANG	me-ve-do-ct-ph
739	Melastomataceae	Clidemia	hirta (L.) D.Don	BS10	CLIDHIRT	no-la-do-ch
740	Euphorbiaceae	Croton	argyratus Blume	BS10	CROTARGY	me-la-do-ct-ph
741	Verbenaceae	Clerodendrum	laevifolium Blume	BS10	CLERLAEV	mi-la-do-ct-ph
742	Lauraceae	Litsea	resinosa Blume	BS10	LITSRESI	me-la-do-ct-ph
743	Fabaceae	Koompassia	malaccensis Maing. ex Benth.	BS10	KOOMMALA	mi-la-do-ch
744	Apocynaceae	Urceola	sp.	BS10	URCESPP.	no-la-do-ph-li
745	Euphorbiaceae	Hevea	brasiliensis (Willd. ex. A. Juss.) M.A.	BS10	HEVEBRAS	me-la-do-ct-ph
746	Styracaceae	Styrax	benzoin Dryand	BS10	STYRBENZ	no-la-do-ch
747	Poaceae	Panicum	sp.	BS10	PANISPP.	na-la-do-pv-hc-ad
748	Lauraceae	Litsea	cf. noronhae Blume	BS10	LITSNORO	me-la-do-ph
749	Burseraceae	Canarium	littorale Blume	BS10	CANALITT	no-la-do-ch
750	Tiliaceae	Grewia	acuminata Juss.	BS10	GREWACUM	mi-la-do-ch
751	Linaceae	Ixonanthes	sp.	BS10	IXONSPP.	mi-la-do-ch
752	Gnetaceae	Gnetum	latifolium Blume	BS10	GNETLATI	no-la-do-ph-li-ep
753	Rutaceae	Euodia	pilulifera King	BS10	EUODPILU	pl-la-do-ct-ph
754	Menispermaceae	Pericampylus	glaucus Merrill	BS10	PERIGLAU	me-la-do-ph-li-ep
755	Sapindaceae	Arytera	xerocarpa (Blume) Adelb.	BS10	ARYTXERO	me-la-do-ph
756	Araceae	Scindapsus	parakensis Hook.f.	BS10	SCINPARA	me-la-do-su-hc-li-ad-ep
757	Euphorbiaceae	Drypetes	sp1.	BS10	DRYPSPP1	no-la-do-ph
758	Euphorbiaceae	Drypetes	sp2.	BS10	DRYPSPP2	no-la-do-ct-ph
759	Piperaceae	Piper	baccatum Blume	BS10	PIPEBACC	no-la-do-su-hc-li-ad-ep
760	Myrtaceae	Syzygium	polyanthum (Wight) Walp.	BS10	SYZYPOLY	no-la-do-ch
761	Leeaceae	Leea	indica (Burm.f) Merr.	BS10	LEEAINDI	me-la-do-ch
762	Moraceae	Ficus	obscura Blume	BS10	FICUOBSC	me-la-do-ch
763	Polygalaceae	Xanthophyllum	sp1.	BS10	XANTSPP1	me-la-do-ch
764	Aspleniaceae	Asplenium	nidus Linn.	BS10	ASPLNIDU	ma-co-do-fi-hc-ep
765	Rubiaceae	Neonauclea	obtusa (Bl.) Merrill	BS10	NEONOBTU	pl-la-do-ct-ph
766	Menispermaceae	Anamirta	cocculus Wight & Arn	BS10	ANAMCOCC	me-la-do-ph-li
767	Myrtaceae	Syzygium	lineatum (DC.) Merrill & Perry	BS10	SYZYLINE	mi-la-do-ct-ph
768	Lauraceae	Cryptocarya	ferea Blume	BS10	CRYPFERE	no-la-do-ct-ph
769	Melastomataceae	Memecylon	paniculatum Jack	BS10	MEMEPANI	mi-la-do-ch
770	Olacaceae	Strombosia	javanica Blume	BS10	STROJAVA	me-la-do-ct-ph
771	Polypodiaceae	Drynaria	sparsiosora (Desv.) Moore	BS10	DRYNSPAR	pl-ve-do-fi-hc-ad-ep
772	Dioscoreaceae	Dioscorea	hispida Dennst.	BS10	DIOSHISP	no-la-do-de-cr
773	Asclepiadaceae	Hoya	macrophylla Blume	BS10	HOYAMACR	me-la-do-su-hc-li-ad-ep
774	Cyperaceae	Scleria	levis Retz.	BS10	SCLELEVI	mi-co-do-pv-hc-ad
775	Zingiberaceae	Hornstedtia	sp.	BS10	HORNSPP.	me-la-do-su-hc-ad
776	Anacardiaceae	Pentaspadon	motleyi Hook.f.	BS10	PENTMOTL	mi-la-do-ct-ph
777	Sapotaceae	Palaquium	cf. obovatum (Griff.) Engl.	BS10	PALAOBOV	me-la-do-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
778	Meliaceae	Chisocheton	divergens Blume	BS10	CHISDIVE	me-la-do-ch
779	Annonaceae	Artabotrys	suaveolens Blume	BS10	ARTASUAV	no-la-do-ch
780	Meliaceae	Aglaia	sp.	BS10	AGLASPP.	mi-la-do-ch
781	Poaceae	Leptaspis	urceolata (Roxb.) R.Br.	BS10	LEPTURCE	no-ve-do-pv-hc-ad
782	Moraceae	Ficus	sagittata Vahl.	BS10	FICUSAGI	me-la-do-hc-li
783	Rutaceae	Micromelum	minutum (Forst.f.) Wight. & Arn.	BS10	MICRMINU	mi-la-do-ph
784	Burseraceae	Santiria	oblongifolia Blume	BS10	SANTOBLO	me-la-do-ct-ph-ad
785	Myrtaceae	Rhodamnia	cinerea Jack	BS10	RHODCINE	no-la-do-ph
786	Burseraceae	Canarium	sp.	BS10	CANASPP.	me-la-do-ch
787	Ulmaceae	Gironniera	nervosa Planch.	BS10	GIRONERV	me-la-do-ct-ph
788	Flacourtiaceae	Flacourtia	rukam Zoll. & Mor.	BS10	FLACRUKA	no-la-do-ch
789	Moraceae	Artocarpus	lanceafolia Roxb.	BS10	ARTOLANC	pl-la-do-ct-ph
790	Liliaceae	Dracaena	elliptica Thunb.	BS10	DRACELLI	me-la-do-ro-su-ch
791	Euphorbiaceae	Baccaurea	cf. lanceolata Muell.Arg.	BS10	BACCLANC	pl-la-do-ct-ph
792	Rubiaceae	Randia	spinosa (L.f.) Poir.	BS10	RANDSPIN	mi-la-do-ch
793	Burseraceae	Santiria	tomentosa Blume	BS10	SANTTOME	me-ve-do-ct-ph
794	Zingiberaceae	Zingiber	zerumbet (L.) Sm.	BS10	ZINGZERU	me-la-do-su-pv-hc-ad
795	Euphorbiaceae	Bridelia	minutiflora Hook.f	BS10	BRIDMINU	me-la-do-ct-ph
796	Sapindaceae	Pometia	pinnata J.R. Forster & D. Forster	BS10	POMEPINN	me-la-do-ph
797	Verbenaceae	Lantana	camara Linn.	BS10	LANTCAMA	mi-la-do-ch
798	Alangiaceae	Alangium	villosum Wangerin	BS10	ALANVILL	no-la-do-ct-ph
799	Rubiaceae	Indet 1	(empty)	BS10	INDE(EMP	no-la-do-ph-li
800	Meliaceae	Dysoxylum	arborescens (Bl.) Miq.	BS10	DYSOARBO	no-la-do-ch
801	Asclepiadaceae	Telosma	accesdens (Blume) Backer	BS10	TELOACCE	mi-la-do-ph-li
802	Annonaceae	Desmos	chinensis Lour.	BS10	DESMCHIN	no-la-do-ch
803	Annonaceae	Fissitigma	latifolium (Dun.) Merrill	BS10	FISSLATI	me-la-do-ch
804	Rutaceae	Luvunga	sarmentosa Kurz	BS10	LUVUSARM	me-la-do-ch
805	Vitaceae	Cayratia	pedata (Lour.) Juss.	BS10	CAYRPEDA	no-la-do-ph-li
806	Moraceae	Artocarpus	dadah Miq.	BS10	ARTODADA	me-la-do-ct-ph
807	Elaeocarpaceae	Elaeocarpus	stipularis Blume	BS10	ELAESTIP	no-co-do-ct-ph-ad
808	Piperaceae	Piper	caninum Blume	BS10	PIPECANI	no-la-do-su-hc-li-ad-ep
809	Sterculiaceae	Sterculia	subpeltata Blume	BS10	STERSUBP	pl-la-do-ph
810	Poaceae	Panicum	incomtum Trin.	BS10	PANIINCO	me-la-do-pv-hc-li
811	Annonaceae	Uvaria	purpurea Blume	BS10	UVARPURP	me-la-do-ct-ph
812	Apocynaceae	Alstonia	scholaris R.Br.	BS10	ALSTSCHO	me-la-do-ct-ph
813	Apocynaceae	Voacanga	foetida Rolfe	BS10	VOACFOET	me-la-do-ct-ph
814	Rubiaceae	Uncaria	glabrata (Blume) DC.	BS10	UNCAGLAB	me-la-do-ph-li
815	Dilleniaceae	Dillenia	sp.	BS10	DILLSPP.	pl-la-do-ch
816	Euphorbiaceae	Baccaurea	motleyana Muell.Arg.	BS10	BACCMOTL	pl-la-do-ch
817	Arecaceae	Calamus	sp.	BS10	CALASPP.	me-la-do-ro-pv-hc-li
818	Fabaceae	Indet 2	(empty)	BS10	INDE(EMP	me-la-do-ph-li
819	Euphorbiaceae	Macaranga	gigantea (Rchb.F. & Zoll.) Muell. Arg.	BS11	MACAGIGA	pl-pe-do-ph
820	Pteris Group	Stenochlaena	palustris (Burm.) Bedd.	BS11	STENPALU	no-la-do-fi-ph-li-ad-ep
821	Piperaceae	Piper	sp.	BS11	PIPESPP.	me-pe-do-su-hc-li-ad-ep
822	Lauraceae	Litsea	elliptica Blume	BS11	LITSELLI	me-la-do-ch
823	Euphorbiaceae	Glochidion	rubrum Blume	BS11	GLOCRUBR	no-la-do-ch
824	Connaraceae	Rourea	mimosoides (Vahl.) Planch.	BS11	ROURMIMO	na-pe-do-ph-li
825	Euphorbiaceae	Glochidion	rubrum Blume	BS11	GLOCRUBR	mi-la-do-ct-ph
826	Cyperaceae	Scleria	purpurascens Steud.	BS11	SCLEPURP	mi-co-do-pv-hc
827	Annonaceae	Desmos	chinensis Lour.	BS11	DESMCHIN	no-la-do-ch
828	Rubiaceae	Psycothria	viridiflora Reinw. ex Blume	BS11	PSYCVIRI	no-la-do-ch
829	Myrtaceae	Syzygium	fastigiatum (Blume) Merrill & Perry	BS11	SYZYFAST	me-la-do-ct-ph

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
830	Connaracae	Rourea	sp.	BS11	ROURSPP.	na-la-do-ph-li
831	Euphorbiaceae	Aporusa	dioica (Roxb.) M.A.	BS11	APORDIOI	no-co-do-ch
832	Theaceae	Eurya	acuminata DC.	BS11	EURYACUM	mi-la-do-ch
833	Rubiaceae	Ixora	javanica (Bl.) DC.	BS11	IXORJAVA	me-la-do-ch
834	Menispermaceae	Fibraurea	chloroleuca Miers	BS11	FIBRCHLO	me-la-do-ph-li
835	Annonaceae	Artabotrys	suaveolens Blume	BS11	ARTASUAV	no-la-do-ch
836	Dilleniaceae	Tetracera	scandens (L.) Merrill	BS11	TETRSCAN	me-la-do-hc-li
837	Myrtaceae	Syzygium	lineatum (DC.) Merrill & Perry	BS11	SYZYLINE	mi-la-do-ct-ph
838	Myrtaceae	Rhodamnia	cinerea Jack	BS11	RHODLINE	no-la-do-ph
839	Araliaceae	Polyscias	nodosa (Blume) Seem.	BS11	POLYNODO	me-la-do-ct-ph
840	Menispermaceae	Pericampylus	glaucus Merrill	BS11	PERIGLAU	me-la-do-cr-li-ep
841	Rubiaceae	Urophyllum	sp.	BS11	UROPSPP.	me-la-do-ct-ph
842	Melastomataceae	Memecylon	paniculatum Jack	BS11	MEMEPANI	no-la-do-ch
843	Poaceae	Lophaterum	gracile Brongn.	BS11	LOPHGRAC	no-la-do-pv-hc-ad
844	Rhizophoraceae	Carralia	brachiata (Lour.) Merrill	BS11	CARRBRAC	mi-la-do-ct-ph
845	Myrtaceae	Syzygium	polyanthum (Wight) Walp	BS11	SYZYPOLY	no-la-do-ch
846	Rubiaceae	Geophylla	repens (L.) I.M.Johston	BS11	GEOPREPE	mi-la-do-su-hc-li
847	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS11	OTTONODO	mi-la-do-pv-hc-ad
848	Rutaceae	Luvunga	sarmentosa Kurz	BS11	LUVUSARM	me-la-do-ct-ph-li
849	Myristicaceae	Knema	sp1.	BS11	KNEMSPP1	no-la-do-ch
850	Apocynaceae	Willughbeia	coriacea Wall.	BS11	WILLCORI	me-la-do-ph-li
851	Fabaceae	Spatholobus	ferrugineus (Zoll. & Mor.) Benth.	BS11	SPATFERR	me-la-do-ph-li
852	Meliaceae	Dysoxylum	sp.	BS11	DYSOSPP.	mi-la-do-ch
853	Fabaceae	Milletia	sericea (Vemt.) Wight & Arn.	BS11	MILLSERI	mi-la-do-ph-li
854	Celastraceae	Salacia	sp.	BS11	SALASPP.	me-la-do-ph-li
855	Rutaceae	Micromelum	minutum (Forst.f.) Wight. & Arn.	BS11	MICRMINU	mi-la-do-ch
856	Vitaceae	Tetrastigma	papillosum (Blume) Planch.	BS11	TETRPAPI	no-la-do-su-hc-li-ad-ep
857	Polypodiaceae	Drynaria	sparsiosora (Desv.) Moore	BS11	DRYASPAR	pl-ve-do-fi-hc-ad-ep
858	Tiliaceae	Grewia	acuminata Juss.	BS11	GREWACUM	no-la-do-ch
859	Myristicaceae	Knema	sp2.	BS11	KNEMSPP2	me-la-do-ct-ph
860	Myrtaceae	Syzygium	confertum (Korth.) Merrill & Perry	BS11	SYZYCONF	no-la-do-ch
861	Euphorbiaceae	Bridelia	minutiflora Hook.f.	BS11	BRIDMINU	me-pe-do-ch
862	Meliaceae	Aglaia	dookoo Griff.	BS11	AGLADOOK	me-la-do-ch
863	Verbenaceae	Clerodendrum	laevifolium Blume	BS11	CLERLAEV	me-la-do-ch
864	Euphorbiaceae	Hevea	brasiliensis (Willd. ex A. Juss.) M.A.	BS11	HEVEBRAS	no-co-do-ct-ph
865	Burseraceae	Canarium	sp.	BS11	CANASPP.	mi-la-do-ch
866	Meliaceae	Dysoxylum	arborescens (Bl.) miq.	BS11	DYSOARBO	mi-la-do-ch
867	Moraceae	Ficus	variegata Blume	BS11	FICUVARI	me-co-do-ct-ph
868	Meliaceae	Aglaia	ganggo Miq.	BS11	AGLAGANG	me-la-do-ct-ph
869	Icacinaceae	Platea	excelsa Blume	BS11	PLATEXCE	pl-la-do-ph
870	Cyperaceae	Cyperus	diffusus Vahl	BS11	CYPEDIFF	mi-co-do-ro-pv-hc
871	Apocynaceae	Urceola	brahysepala Hook.f.	BS11	URCEBRAH	me-la-do-ph-li
872	Lecythidaceae	Barringtonia	macrostachya (Jack) Kurz	BS11	BARRMACR	me-la-do-ct-ph
873	Rubiaceae	Morinda	citrifolia Linn.	BS11	MORICRTR	no-la-do-ph-li-ep
874	Liliaceae	Dracaena	elliptica Thunb.	BS11	DRACELLI	no-la-do-pv-ch
875	Nephrolepis Group	Nephrolepis	exaltata (L.) Scott	BS11	NEPHEXAL	na-la-do-fi-hc-ad
876	Elaeocarpaceae	Elaeocarpus	stipularis Blume	BS11	ELAESTIP	me-la-do-ct-ph
877	Annonaceae	Uvaria	purpurea Blume	BS11	UVARPURP	me-la-do-ph-li
878	Olacaceae	Strombosia	javanica Blume	BS11	STROJAVA	me-la-do-ct-ph
879	Melastomataceae	Pternandra	caerulescens Jack	BS11	PTERCAER	no-la-do-ph
880	Myristicaceae	Horsfieldia	glabra (Bl.) Warb.	BS11	HORSGLAB	me-la-do-ph
881	Rubiaceae	Randia	spinosa (L.f.) Poir.	BS11	RANDSPIN	no-la-do-ch

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
882	Symplocaceae	Symplocos	sp.	BS11	SYMPSPP.	mi-la-do-ch
883	Euphorbiaceae	Mallotus	sp.	BS11	MALLSPP.	me-la-do-ch
884	Adiantum Group	Taenitis	blechnoides (Willd.) Sw.	BS11	TAENBLEC	mi-la-do-fi-hc-ad
885	Zingiberaceae	Hornstedtia	sp.	BS11	HORNSPP.	me-la-do-su-hc-ad
886	Melastomataceae	Clidemia	hirta (L.) D.Don	BS11	CLIDHIRT	no-la-do-ch
887	Myristicaceae	Gymnacranthera	forbesii (King) Warb.	BS11	GYMNFORB	no-la-do-ch
888	Dilleniaceae	Dillenia	ovata Wall. ex Hook.f. & Thoms.	BS11	DILLOVAT	me-la-do-ch
889	Connaraceae	Agelaea	trinervis (Lianos) Merr.	BS11	AGELTRIN	me-la-do-ph-li
890	Fabaceae	Koompasia	malaccensis Maing. ex Benth.	BS11	KOOMMALA	no-la-do-ch
891	Annonaceae	Polyalthia	rumphii (Bl.) Merrill	BS11	POLYRUMP	me-la-do-ch
892	Burseraceae	Dacryodes	rostrata (Blume) H.J. Lam	BS11	DACRROST	me-la-do-ch
893	Rhamnaceae	Zizyphus	calophylla Wall. ex Hk.f.	BS11	ZIZYCALO	no-la-do-ph-li
894	Meliaceae	Dysoxylum	sp.	BS11	DYSOSP.	no-la-do-ct-ph
895	Anacardiaceae	Pentaspadon	motleyi Hook.f.	BS11	PENTMOTL	me-la-do-ct-ph
896	Annonaceae	Xylopia	malayana Hook.f. & Thoms.	BS11	XYLOMALA	no-la-do-ch
897	Araceae	Scindapsus	parakensis Hook.f.	BS11	SCINPARA	me-la-do-su-hc-li-ad-ep
898	Polygalaceae	Xanthophyllum	laevis van der Meijden	BS11	XANTLAEV	no-la-do-ct-ph
899	Apocynaceae	Voacanga	foetida Rolfe	BS11	VOACFOET	me-la-do-ch
900	Clusiaceae	Cratoxylum	cochinchinense (Lour.) Blume	BS11	CRATCOCH	no-la-do-ch
901	Poaceae	Centotheca	lappacea (L.) Desvaux	BS11	CENTLAPP	mi-la-do-pv-hc-ad
902	Sapindaceae	Xerospermum	noronhianum Blume	BS11	XERONORO	me-la-do-ct-ph
903	Fabaceae	Archidendron	jiringa (Jack) I. Nielsen	BS11	ARCHJIRI	me-la-do-ct-ph
904	Cyperaceae	Hypolytrum	nemorum (Vahl.) Spreng.	BS11	HYPONEMO	pl-co-do-ro-pv-hc-ad
905	Simaroubaceae	Eurycoma	longifolia Jack	BS11	EURYLONG	mi-la-do-ch
906	Rubiaceae	Timonius	timon (Spreng.) Merr.	BS11	TIMOTIMO	me-la-do-ct-ph
907	Euphorbiaceae	Macaranga	hypoleuca (Rchb. F. & Zoll.) Muell. Arg.	BS11	MACAHYPO	me-la-do-ct-ph
908	Euphorbiaceae	Galearia	filiformis (Bl.) Pax	BS11	GALEFILI	me-la-do-ct-ph
909	Clusiaceae	Garcinia	cf. nigrolineata Planch. ex T.A.	BS11	GARCNIGR	me-la-do-ct-ph
910	Gnetaceae	Gnetum	latifolium Blume	BS11	GNETLATI	no-la-do-ph-li
911	Moraceae	Artocarpus	kemando Miq.	BS11	ARTOKEMO	no-la-do-ct-ph
912	Styracaceae	Styrax	benzoin Dryand.	BS11	STYRBENZ	me-la-do-ch
913	Ulmaceae	Gironniera	nervosa Planch.	BS11	GIRONERV	me-la-do-ct-ph
914	Apocynaceae	Alstonia	scholaris R.Br.	BS11	ALSTSCHO	no-la-do-ch
915	Vitaceae	Cayratia	pedata (Lour.) Juss.	BS11	CAYRPEDA	me-la-do-su-hc-li-ad-ep
916	Cyperaceae	Scleria	levis Retz.	BS11	SCLELEVI	no-co-do-ro-pv-hc
917	Poaceae	Ottochloa	nodosa (Kunth) Dandy	BS11	OTTONODO	mi-la-do-hc-ad
918	Myristicaceae	Gymnacranthera	forbesii (king) warb.	BS11	GYMNFORB	me-la-do-ct-ph
919	Verbenaceae	Vitex	pinnata l.f.	BS11	VITEPINN	no-co-do-ph
920	Asteraceae	*Chromolaena*	odorata (L.) R.M. King & H.R.	BS12	CHROODOR	no-pe-do-ch
921	Poaceae	Imperata	cylindrica (L.) Beauv.	BS12	IMPECYLI	me-ve-do-pv-hc-ad
922	Poaceae	Pennisetum	purureum Schum.	BS12	PENNPURU	me-ve-do-pv-hc
923	Melastomataceae	Melastoma	affine D.Don	BS12	MELAAFFI	mi-ve-do-ch
924	Myrtaceae	Psidium	guajava L.	BS12	PSIDGUAJ	no-ve-do-ch
925	Schizaeaceae	Lygodium	circinnatum (Burm.f.) Sw.	BS12	LYGOCIRC	mi-ve-do-fi-hc-li
926	Fabaceae	Centrosema	pubescens Benth.	BS12	CENTPUBE	mi-ve-do-de-cr-li
927	Fabaceae	Leucaena	leucacephala (Lam.) de Wit	BS12	LEUCLEUC	le-ve-do-ch
928	Asteraceae	Blumea	lacera (Burm.f.) DC.	BS12	BLUMLACE	mi-ve-do-hc
929	Poaceae	Paspalum	scorbiculatum Steud.	BS12	PASPSCOR	no-ve-do-pv-hc
930	Compositae	Clibadium	sp.	BS12	CLIBSP.	no-ve-do-ch
931	Poaceae	Pennisetum	purpureum Schum.	BS13	PENNPURP	me-ve-do-pv-hc
932	Asteraceae	*Chromolaena*	odorata (L.) R.M. King & R.H.	BS13	CHROODOR	mi-la-do-ch
933	Melastomataceae	Melastoma	affine D.Don	BS13	MELAAFFI	no-ve-do-ch

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
934	Myrtaceae	Psidium	guajava L.	BS13	PSIDGUAJ	no-ve-do-ch
935	Fabaceae	Centrosema	pubescens Benth.	BS13	CENTPUBE	mi-ve-do-de-cr-li
936	Fabaceae	Calopogonium	mucunoides Desv.	BS13	CALOMUCU	mi-ve-do-de-cr-li
937	Poaceae	Imperata	cylindrica (l.) beauv.	BS13	IMPECYLI	mi-ve-do-pv-hc-ad
938	Poaceae	Paspalum	conjugatum Berg.	BS14	PASPCONJ	mi-ve-do-pv-hc-ad
939	Poaceae	Paspalum	commersonii Lam.	BS14	PASPCONJ	mi-ve-do-pv-hc-ad
940	Poaceae	Digitaria	ciliaris (Retz.) Koel.	BS14	DIGICILI	na-ve-do-pv-hc-ad
941	Cyperaceae	Cyperus	rotundus Linn.	BS14	CYPEROTU	mi-ve-do-ro-pv-hc
942	Rubiaceae	Hedyotis	corymbosa (L.) Lam.	BS14	HEDYCORY	na-ve-do-hc-ad
943	Poaceae	Axonopus	compressus (Swartz) Beauv.	BS14	AXONCOMP	mi-la-do-pv-hc-ad
944	Poaceae	Pennisetum	purpureum Schum.	BS14	PENNPURP	no-ve-do-pv-hc
945	Poaceae	Imperata	cylindrica (L.) Beauv.	BS14	IMPECYLI	mi-ve-do-pv-hc-ad
946	Melastomataceae	Melastoma	affine D.Don	BS14	MELAAFFI	mi-la-do-ch
947	Rubiaceae	Borreria	hispida Spruce ex K.Schum.	BS14	BORRHISP	na-la-do-hc
948	Asteraceae	Porophyllum	ruderale (Jacq.) Cass.	BS14	PORORUDE	mi-ve-do-su-th
949	Euphorbiaceae	Croton	glandulosus Linn.	BS14	CROTGLAN	na-la-do-th
950	Fabaceae	Centrosema	pubescens Benth.	BS14	CENTPUBE	mi-ve-do-de-cr-li
951	Poaceae	Paspalum	scorbiculatum Steud.	BS14	PASPSCOR	no-ve-do-pv-hc
952	Euphorbiaceae	Manihot	esculenta crantz	BS14	MANIESCU	no-pe-do-ch
953	Poaceae	Digitaria	ciliaris (Retz) Koel.	BS15	DIGICILI	mi-ve-do-pv-hc-ad
954	Poaceae	Pennisetum	purpureum Schum.	BS15	PENNPURP	mi-ve-do-pv-hc
955	Euphorbiaceae	Croton	glandulosus Linn.	BS15	CROTGLAN	mi-co-do-hc
956	Rubiaceae	Borreria	hispida Spruce ex K. Schum.	BS15	BORRHISP	na-la-do-hc
957	Rubiaceae	Hedyotes	corymbosa (L.) Lam.	BS15	HEDYCORY	na-la-do-hc
958	Euphorbiaceae	Manihot	esculanta Crantz	BS15	MANIESCU	no-pe-do-ch
959	Poaceae	Imperata	cylindrica (L.) Beauv.	BS15	IMPECYLI	me-ve-do-pv-hc-ad
960	Asteraceae	*Chromolaena*	odorata (L.) R.M. King & H.R.	BS15	CHROODOR	no-pe-do-ch
961	Verbenaceae	Stachytarpheta	jamaicensis (L.) Vahl.	BS15	STACJAMA	mi-la-do-hc
962	Cyperaceae	Cyperus	rotundus Linn.	BS15	CYPEROTU	mi-ve-do-hc
963	Poaceae	Axonopus	compressus (Swartz Beauv.	BS15	AXONCOMP	mi-la-do-pv-hc-ad
964	Poaceae	Sporobolus	diander (Retz.) Beauv.	BS15	SPORDIAN	mi-ve-do-pv-hc
965	Asteraceae	Ageratum	conyzoides Linn.	BS15	AGERCONY	mi-pe-do-th
966	Melastomataceae	Melastoma	affine D.Don	BS15	MELAAFFI	mi-ve-do-ch
967	Poaceae	Eleusine	indica (L.) Gaertn.	BS15	ELEUINDI	mi-ve-do-pv-hc
968	Poaceae	Echinochloa	colonum (L.) Link.	BS15	ECHICOLO	na-ve-do-pv-hc
969	Fabaceae	Centrosema	pubescens Benth.	BS15	CENTPUBE	mi-ve-do-de-cr-li
970	Poaceae	Eragrotis	elongata (Willd.) Jacq.	BS15	ERAGELON	mi-ve-do-pv-hc
971	Poaceae	Paspalum	scorbiculatum steud.	BS15	PASPSCOR	mi-ve-do-pv-hc-ad
972	Asteraceae	*Chromolaena*	odorata (L.) R.M. King & H.R.	BS16	CHROODOR	no-pe-do-ch
973	Schizaeaceae	Lygodium	circinnatum (Burm.f.) Sw.	BS16	LYGOCIRC	mi-la-do-fi-hc-li
974	Euphorbiaceae	Bridelia	tomentosa Blume	BS16	BRIDTOME	mi-pe-do-ch
975	Euphorbiaceae	Bridelia	minutiflora Hook.f.	BS16	BRIDMINU	me-ve-do-pv-hc-ad
976	Verbenaceae	Lantana	camara Linn.	BS16	LANTCAMA	mi-la-do-ch
977	Fabaceae	Archidendron	jiringa (Jack.) I. Nielsen	BS16	ARCHJIRI	no-la-do-ch
978	Euphorbiaceae	Antidesma	ghesaembilla Gaertn.	BS16	ANTIGHES	mi-la-do-ch
979	Convolvulaceae	Lepistemon	binectariferum Kuntze	BS16	LEPIBINE	no-pe-do-hc-li
980	Ulmaceae	Trema	orientalis (L.) Blume	BS16	TREMORIE	no-la-do-ct-ph
981	Euphorbiaceae	Aporusa	dioica (Roxb.) M.A.	BS16	APORDIOI	me-la-do-ch
982	Menispermaceae	Pericampylus	glaucus Merrill	BS16	PERIGLAU	no-pe-do-cr-li
983	Poaceae	Panicum	incomtum Trin.	BS16	PANIINCO	me-pe-do-pv-hc-ad
984	Poaceae	Panicum	cordatum Buese	BS16	PANICORD	no-pe-do-pv-hc-ad
985	Verbenaceae	Vitex	pinnata Linn.	BS16	VITEPINN	me-la-do-ch

ANNEX III

Table 3. Vascular plant species and functional types listed according to site

No	Family	Genus	Species	Site	Code	Functional modi
986	Convolvulaceae	Merremia	umbellata (L.) Hallier.f.	BS16	MERRUMBE	no-pe-do-hc-li
987	Asteraceae	Mikania	cordata (Burm.f.) B.L.R.	BS16	MIKACORD	no-pe-do-hc-li
988	Acanthaceae	Justicia	sp.	BS16	JUSTSPP.	mi-la-do-hc
989	Fabaceae	Desmodium	heterocarpon (L.) DC.	BS16	DESMHETE	na-la-do-ch
990	Poaceae	Cyrtococcum	accrescens Stapf	BS16	CYRTACCR	mi-la-do-pv-hc
991	Poaceae	Paspalum	conjugatum Berg.	BS16	PASPCONJ	no-co-do-pv-hc-li-ad
992	Euphorbiaceae	Macaranga	rhizinoides (Bl.) Muell.Arg.	BS16	MACARHIZ	pl-la-do-ct-ph
993	Moraceae	Ficus	fistulosa Reinw. ex Blume	BS16	FICUFIST	me-la-do-ct-ph
994	Euphorbiaceae	Homalanthus	populneus (Grisel) Pax	BS16	HOMAPOPU	me-la-do-ch
995	Melastomataceae	Melastoma	affine D.Don	BS16	MELAAFFI	mi-la-do-ch
996	Malvaceae	Abelmoschus	moschatus (L.) Medicus	BS16	ABELMOSC	me-la-do-ch
997	Rubiaceae	Psychotria	viridiflora Reinw. ex Blume	BS16	PSYCVIRI	no-la-do-ch
998	Fabaceae	Uraria	logopodioides (L.) Desv. ex DC.	BS16	URARLOGO	mi-la-do-hc
999	Poaceae	Cyrttococcum	accrescens Stapf	BS16	CYRTACCR	mi-co-do-pv-hc
1000	Solanaceae	Solanum	torvum Swartz	BS16	SOLATORV	me-ve-do-ch
1001	Cyperaceae	Scleria	levis Retz.	BS16	SCLELEVI	no-co-do-pv-hc
1002	Euphorbiaceae	Mallotus	paniculatus (Lam.) Muell. Arg.	BS16	MALLPANI	me-la-do-ch
1003	Euphorbiaceae	Phyllanthus	niruri Linn.	BS16	PHYLNIRU	le-la-do-ch
1004	Thelipteris Group	Cyclosorus	sp.	BS16	CYCLSPP.	me-la-do-fi-hc-ad
1005	Leeaceae	Leea	indica (Burm.f.) Merr.	BS16	LEEASPP.	no-la-do-ch-ad
1006	Euphorbiaceae	Glochidion	sp.	BS16	GLOCSPP.	na-la-do-ch
1007	Fabaceae	Mimosa	invisa Martius ex Colla	BS16	MIMOSPP.	pi-la-do-ch-li
1008	Nephrolepis Group	Nephrolepis	exaltata (L.) Schott	BS16	NEPHEXAL	na-la-do-fi-hc-ad
1009	Sterculiaceae	Commersonia	bartramia Merrill	BS16	COMMBART	mi-la-do-ct-ph
1010	Poaceae	Centotheca	lappacea (L.) Desvaux	BS16	CENTLAPP	mi-la-do-pv-hc-ad
1011	Dioscoreaceae	Dioscorea	hispida Dennst.	BS16	DIOSHISP	no-la-do-de-cr-li
1012	Euphorbiaceae	Macaranga	tanarius (L.) Muell.Arg.	BS16	MACATANA	pl-pe-do-ch
1013	Passifloraceae	Passiflora	foetida Linn.	BS16	PASSFOET	no-la-do-hc-li
1014	Asteraceae	Clibadium	surinamense Linn.	BS16	CLIBSURI	no-pe-do-ch

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Table 4. List of bird species per benchmark sites

No.	Number Survey	Species Name English	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9	BS10	BS11	BS12	BS13	BS14	BS15	BS16
1	39	Grey Heron	0	0	0	0	0	0	0	0	*	0	*	0	X	*	*	0
2	53	Striated Heron	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
3	79	Oriental Honey-buzzard	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
4	90	Crested Serpent-eagle	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
5	97	Crested Goshawk	0	0	X	0	X	0	0	0	*	0	*	0	0	*	*	0
6	107	Japanese Goshawk	0	0	0	0	0	0	X	X	*	0	*	0	0	*	*	0
7	132	Black-thighed Falconet	0	0	0	0	0	X	X	0	*	0	*	0	0	*	*	0
8	144	Wandering Whistling-duck	0	0	0	0	0	0	0	0	*	0	*	X	0	*	*	0
9	190	Red Junglefowl	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	0
10	199	Barred Button-quail	0	0	0	0	0	X	0	0	*	0	*	X	X	*	*	X
11	225	White-breasted Waterhen	0	0	0	0	0	0	0	0	*	0	*	0	X	*	*	0
12	244	Little Ringed Plover	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
13	268	Common Sandpiper	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
14	275	Pintail Snipe	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
15	295	Oriental Pratincole	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
16	324	Thick-billed Green Pigeon	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	0
17	331	Pink-necked Gree Pigeon	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
18	337	(Jambu) Fruit-dove	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	X
19	360	Green Imperial Pigeon	0	0	0	0	0	0	0	0	*	X	*	0	0	*	*	0
20	395	Spotted Dove	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	X
21	397	Zebra Dove	0	0	0	0	0	0	0	0	*	0	*	X	0	*	*	0
22	400	Emerald Dove	0	0	X	X	X	0	0	X	*	X	*	0	0	*	*	X
23	472	Long-tailed Parakeet	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	0
24	481	Blue-rumped Parrot	X	X	X	X	X	X	0	X	*	0	*	0	0	*	*	0
25	482	Blue-crowned Hanging-parrot	X	X	X	X	X	X	0	X	*	0	*	0	0	*	*	0
26	495	Indian Cuckoo	0	0	0	0	0	0	X	0	*	0	*	0	0	*	*	X
27	497	Oriental Cuckoo	0	0	0	X	X	0	0	0	*	0	*	0	0	*	*	0
28	499	Banded Bay Cuckoo	X	0	0	X	0	0	0	0	*	X	*	0	0	*	*	0
29	500	Plaintive Cuckoo	0	0	0	0	0	X	X	0	*	0	*	X	X	*	*	X
30	519	Drongo Cuckoo	0	0	0	0	0	0	X	0	*	X	*	0	0	*	*	X
31	526	Chestnut-bellied Malkoha	0	0	0	0	0	0	0	0	*	X	*	0	0	*	*	0
32	529	Red-billed Malkhoa	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
33	531	Chestnut-breasted Malkoha	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
34	540	Greater Coucal	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
35	542	Lesser Coucal	0	0	0	0	0	X	X	X	*	X	*	X	X	*	*	X
36	564	Collared Scops owl	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
37	568	Buffy Fish-owl	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
38	576	Brown Boobook	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
39	602	Malaysian-eared Nightjar	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
40	607	Savanna Nightjar	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
41	614	Edible-nest Swiftlet	0	0	X	X	0	X	0	0	*	0	*	0	0	*	*	0
42	622	White-throated Needletail	0	0	0	0	0	X	0	0	*	0	*	0	0	*	*	0
43	626	Silver-rumped Swift	0	0	0	0	0	X	0	0	*	0	*	0	0	*	*	0
44	630	Asian Palm-swift	0	0	0	0	0	X	0	0	*	0	*	0	0	*	*	0
45	631	Grey-rumped Tree-swift	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
46	633	Whiskered Tree-swift	0	X	X	X	X	X	0	0	*	0	*	0	0	*	*	0
47	635	Red-naped Trogon	X	X	0	0	X	0	0	0	*	0	*	0	0	*	*	0
48	637	Orange-breasted Trogon	0	0	0	X	0	0	0	0	*	0	*	0	0	*	*	0
49	648	Oriental Dwarf Kingfisher	X	X	0	0	X	0	0	0	*	0	*	0	0	*	*	0
50	650	Stork-billed Kingfisher	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
51	660	White-breasted Kingfisher	0	0	0	0	0	0	X	X	*	0	*	X	X	*	*	0
52	672	Collared Kingfisher	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
53	687	Blue-tailed Bee-eater	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
54	689	Blue-throated Bee-eater	0	X	0	X	X	X	X	X	*	X	*	X	X	*	*	X
55	690	Red-bearded Bee-eater	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
56	693	Common Dollarbird	0	0	0	0	0	0	0	0	*	0	*	X	0	*	*	X
57	701	Wreathed Hornbill	0	0	0	0	0	0	0	0	*	0	*	X	0	*	*	0
58	705	Black Hornbill	0	0	0	X	X	0	X	0	*	X	*	0	0	*	*	0
59	706	Asian Pied Hornbill	0	0	X	0	0	0	0	0	*	X	*	0	0	*	*	0

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No.	Number Survey	Species Name English	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9	BS10	BS11	BS12	BS13	BS14	BS15	BS16
60	707	Rhinoceros Hornbill	X	0	0	X	0	0	0	0	*	X	*	0	0	*	*	0
61	709	Helmeted Hornbill	X	X	X	X	X	0	0	0	*	0	*	0	0	*	*	0
62	714	Red-crowned Barbet	X	X	X	X	X	0	0	0	*	0	*	0	0	*	*	0
63	721	Blue-eared Barbet	0	0	X	X	0	0	0	0	*	X	*	0	0	*	*	X
64	724	Brown Barbet	0	0	0	0	0	0	0	0	*	X	*	0	0	*	*	0
65	727	Rufous Piculet	0	0	0	0	0	0	0	0	*	X	*	0	0	*	*	0
66	734	Crimson-winged Yellownape	0	0	X	X	0	0	0	X	*	X	*	0	0	*	*	0
67	737	Olive-backed Woodpecker	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
68	739	Buff-necked Woodpecker	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
69	742	White-bellied Woodpecker	X	X	X	X	0	0	0	0	*	0	*	0	0	*	*	0
70	747	Grey-and-buff Woodpecker	0	0	X	0	X	0	0	0	*	0	*	0	0	*	*	0
71	748	Maroon Woodpecker	0	0	0	X	0	0	0	0	*	0	*	0	0	*	*	0
72	750	Greater Goldenback	0	0	0	0	0	0	0	0	*	0	*	0	X	*	*	0
73	751	Dusky Broadbill	0	0	X	0	0	0	0	0	*	0	*	0	0	*	*	0
74	754	Black-and-yellow Broadbill	0	0	X	X	X	0	X	X	*	X	*	0	0	*	*	0
75	776	Barn Swallow	0	0	0	0	X	X	X	0	*	0	*	X	X	*	*	X
76	799	Bar-bellied Cuckoo-shrike	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
77	829	Fiery Minivet	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
78	830	Unidentified minivet	0	X	X	0	0	0	0	0	*	0	*	0	0	*	*	0
79	833	Scarlet Minivet	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
80	835	Black-winged Hemipus	0	X	X	0	0	0	0	0	*	0	*	0	0	*	*	0
81	836	Large Wood-shrike	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
82	840	unidentified bulbul	X	X	0	X	0	0	0	0	*	0	*	0	0	*	*	0
83	841	Black-headed Bulbul	0	0	0	X	X	0	0	X	*	X	*	0	0	*	*	0
84	842	Black-crested Bulbul	0	0	0	0	0	0	0	X	*	X	*	0	0	*	*	0
85	845	Sooty-headed Bulbul	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	0
86	849	Yellow-vented Bulbul	0	0	0	0	0	X	X	0	*	0	*	X	X	*	*	X
87	851	Cream-vented Bulbul	0	0	0	X	0	X	0	0	*	X	*	0	0	*	*	0
88	852	Red-eyed Bulbul	0	0	X	X	X	X	X	X	*	X	*	0	0	*	*	X
89	857	Yellow-bellied Bulbul	X	X	X	0	X	0	0	0	*	0	*	0	0	*	*	0
90	860	Hairy-backed Bulbul	0	0	X	0	0	0	0	0	*	0	*	0	0	*	*	0
91	865	Common Iora	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	X
92	866	Green Iora	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
93	867	Greater Green Leafbird	X	X	X	0	0	0	0	0	*	0	*	0	0	*	*	0
94	868	Lesser Green Leafbird	0	0	0	X	X	0	0	0	*	0	*	0	0	*	*	0
95	869	Blue-winged Leafbird	0	0	X	0	0	0	0	0	*	0	*	0	0	*	*	0
96	872	Asian Fairy Bluebird	0	X	0	0	0	X	0	0	*	0	*	0	0	*	*	0
97	873	Tiger Shrike	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	X
98	875	Long-tailed Shrike	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
99	882	Oriental Magpie-robin	0	0	0	0	0	X	X	0	*	0	*	X	X	*	*	X
100	883	White-rumped Shama	0	X	0	X	0	0	0	0	*	0	*	0	0	*	*	0
101	915	Eye-browed Thrush	0	0	0	0	0	X	X	0	*	0	*	0	0	*	*	0
102	922	Rail-babbler	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
103	926	Black-capped Babbler	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
104	929	Short-tailed Babbler	0	0	X	0	0	0	0	0	*	X	*	0	0	*	*	0
105	931	Ferruginous Babbler	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
106	932	Horsfield's Babbler	X	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
107	934	Abbott's Babbler	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
108	937	Moustached Babbler	X	X	0	0	X	0	0	0	*	0	*	0	0	*	*	0
109	939	Scaly-crowned Babbler	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
110	940	Rufous-crowned Babbler	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	X
111	942	Chestnut-backed Scimitar-babbler	0	0	0	0	X	0	0	X	*	0	*	0	0	*	*	0
112	947	Striped Wren-babbler	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
113	955	Unidentified Stachyris	X	X	0	0	0	0	X	0	*	0	*	0	0	*	*	0
114	961	Chestnut-rumped Babbler	0	0	0	X	0	0	0	0	*	0	*	0	0	*	*	X
115	963	Black-throated Babbler	0	0	X	0	0	0	0	0	*	0	*	0	0	*	*	0
116	965	Chestnut-winged Babbler	0	0	X	X	X	0	0	0	*	X	*	0	0	*	*	0
117	968	Striped Tit-babbler	0	0	0	X	0	X	X	0	*	X	*	X	X	*	*	X
118	979	Brown Fulvetta	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0

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119	990	Sunda Bush-warbler	0	0	0	0	0	0	0	0	*	X	*	0	0	*	*	0
120	1005	Zitting Cisticola	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	0
121	1006	Golden-headed Cisticola	0	0	0	0	0	0	0	0	*	0	*	X	0	*	*	X
122	1009	Bar-winged Prinia	0	0	0	0	0	X	X	0	*	X	*	X	X	*	*	X
123	1010	Yellow-bellied Prinia	0	0	0	0	0	X	0	X	*	0	*	X	X	*	*	X
124	1014	Dark-necked Tailorbird	0	X	X	X	X	X	X	X	*	X	*	X	X	*	*	X
125	1015	Rufous-tailed Tailorbird	0	X	X	X	X	X	X	0	*	0	*	0	0	*	*	0
126	1016	Ashy Tailorbird	X	X	X	X	X	X	X	0	*	0	*	X	X	*	*	X
127	1037	Asian Brown Flycatcher	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
128	1068	Tickell's Blue Flycatcher	X	X	X	X	X	0	0	0	*	0	*	0	0	*	*	0
129	1070	Unidentified flycatcher	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
130	1071	Grey-headed Flycatcher	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
131	1099	Rufous-winged Philentoma	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
132	1101	Black-naped Monarch	0	X	X	0	X	0	0	0	*	X	*	0	0	*	*	0
133	1103	Asian Paradise-flycatcher	0	X	0	0	X	0	0	0	*	0	*	0	0	*	*	0
134	1141	Spotted Fantail	0	0	0	X	X	0	0	0	*	0	*	0	0	*	*	0
135	1228	Crimson-breasted Flowerpecker	0	0	0	0	0	0	0	X	*	X	*	0	0	*	*	0
136	1230	Unidentified flowerpecker	0	0	X	X	X	0	0	0	*	0	*	0	0	*	*	0
137	1236	Orange-bellied Flowerpecker	X	X	X	X	X	0	0	0	*	X	*	0	0	*	*	X
138	1254	Brown-throated Sunbird	X	0	0	X	X	0	X	0	*	X	*	0	0	*	*	X
139	1253	Plain Sunbird	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
140	1257	Purple-naped Sunbird	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
141	1261	Olive-backed Sunbird	0	0	0	0	0	0	X	X	*	0	*	0	0	*	*	0
142	1266	Crimson Sunbird	0	0	X	X	X	0	0	0	*	0	*	0	0	*	*	0
143	1269	Little Spiderhunter	X	0	X	X	X	0	0	0	*	0	*	0	0	*	*	0
144	1274	Grey-breasted Spiderhunter	X	X	X	0	X	0	0	0	*	0	*	0	0	*	*	0
145	1275	Oriental White-eye	0	0	X	0	X	0	0	0	*	0	*	0	0	*	*	0
146	1398	White-bellied Munia	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	X
147	1397	Scaly-breasted Munia	0	0	0	0	0	X	0	0	*	0	*	X	X	*	*	0
148	1403	White-headed Munia	0	0	0	0	0	0	0	0	*	0	*	X	X	*	*	X
149	1415	Tree Sparrow	0	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
150	1424	Asian Glossy Starling	X	X	X	X	X	0	0	0	*	0	*	0	0	*	*	0
151	1441	Hill Myna	0	X	X	0	X	X	X	X	*	0	*	0	X	*	*	X
152	1451	Dark-throated Oriole	0	0	0	X	X	0	0	0	*	X	*	0	0	*	*	0
153	1462	Bronzed Drongo	0	0	X	0	X	0	0	0	*	0	*	0	0	*	*	0
154	1469	Greater Racquet-tailed Drongo	X	X	X	X	X	0	X	0	*	X	*	0	0	*	*	X
155	1520	Black Magpie	0	0	0	0	0	0	0	X	*	X	*	0	0	*	*	0
156	1526	Slender-billed Crow	0	X	0	0	0	X	X	X	*	X	*	0	0	*	*	0
157	1600	Species A	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
158	1601	Species B	X	0	0	0	0	0	0	0	*	0	*	0	0	*	*	0
159	1602	Species C	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
160	1603	Specices D	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
161	1604	Species E	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
162	1605	Species F	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
163	1606	Species G	0	X	0	0	0	0	0	0	*	0	*	0	0	*	*	0
164	1607	Species H	0	0	X	0	0	0	0	0	*	0	*	0	0	*	*	0
165	1608	Species I	0	0	X	X	0	0	0	0	*	0	*	0	0	*	*	0
166	1609	Species J	0	0	0	0	X	0	0	0	*	0	*	0	0	*	*	0
			30	41	42	41	54	28	26	20	*	33	*	26	25	*	*	30

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Table 5. List of large mammal species per benchmark sites

No.	Species	Code	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9	BS10	BS11	BS12	BS13	BS14	BS15	BS16
1	*Macaca fascicularis*	MACAFASC	1	1	1	0	1	0	0	0	*	0	*	0	*	0	*	*
2	*Presbytis melalophos*	PRESMELA	1	1	1	1	1	1	0	1	*	1	*	0	*	0	*	*
3	*Callosciurus prevostii*	CALLPREV	1	0	0	1	0	1	0	1	*	1	*	0	*	0	*	*
4	*Pteropus vampirus*	PTERVAMP	1	0	0	0	0	0	0	0	*	0	*	0	*	0	*	*
5	*Helarctos malayanus*	HELAMALA	1	1	0	0	0	1	0	0	*	0	*	0	*	0	*	*
6	*Sus barbatus*	SUSBARBA	1	1	0	1	0	1	1	1	*	1	*	0	*	0	*	*
7	*Hylobates lar agilis*	HYLOLARA	1	0	1	1	1	1	1	0	*	0	*	0	*	0	*	*
8	*Hemigalus derbyanus*	HEMIDERB	1	0	0	0	0	0	0	0	*	0	*	0	*	0	*	*
9	*Trachyphitecus cristatus*	TRACCRIS	0	0	1	0	0	0	0	0	*	1	*	0	*	0	*	*
10	*Tragulus javanicus*	TRAGJAVA	0	0	0	1	0	0	0	0	*	0	*	0	*	0	*	*
11	*Petinomys genigarbis*	PETIGENI	0	0	0	1	0	0	0	0	*	0	*	0	*	0	*	*
12	*Ratufa affinis*	RATUAFFI	0	0	0	0	0	1	0	0	*	0	*	0	*	0	*	*
13	*Felis bengalensis*	FELIBENG	0	0	0	0	0	0	0	1	*	0	*	0	*	0	*	*
14	*Sundasciurus hippurus*	SUNDHIPP	0	0	0	0	0	0	0	0	*	1	*	0	*	0	*	*
15	*Callosciurus notatus*	CALLNOTA	0	0	0	0	0	0	0	0	*	1	*	0	*	0	*	*
16	*Cervus unicolor*	CERVUNIC	0	0	0	0	0	0	1	0	*	1	*	0	*	1	*	*
17	*Sus scrofa*	SUSSCROF	0	0	0	0	0	0	0	0	*	0	*	1	*	1	*	*
18	*Muntiacus muntjak*	MUNTMUNT	0	0	0	0	1	0	0	0	*	0	*	0	*	0	*	*
19	*Tupaia tana*	TUPATANA	0	0	0	0	0	0	0	0	*	1	*	0	*	0	*	*
20	*Tupaia glis*	TUPAGLIS	0	0	0	0	0	0	0	0	*	1	*	0	*	0	*	*
21	*Sundasciurus lowii*	SUNDLOWI	0	0	0	0	0	0	0	0	*	1	*	0	*	0	*	*

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Table 6. List of small mammal species per benchmark sites

No.	Species	Code	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9	BS10	BS11	BS12	BS13	BS14	BS15	BS16
1	*Balionycteris maculata*	BALIMACU	0	0	0	1	1	0	0	0	0	0	0	0	0	*	*	*
2	*Cynopterus brachyotis*	CYNOBRAC	0	0	0	0	0	0	0	1	1	1	1	0	0	*	*	*
3	*Maxomys rajah*	MAXOWHIT	1	1	0	1	1	0	0	0	0	0	0	0	0	*	*	*
4	*Maxomys whiteheadi*	MAXOWHIT	0	0	1	1	1	1	0	1	1	1	1	0	0	*	*	*
5	*Pipistrellus javanicus*	PIPIJAVA	0	0	0	0	0	0	1	0	0	0	0	0	0	*	*	*
6	*Rhinolophus lepidus*	RHINLEPI	0	0	0	1	1	0	0	0	0	0	0	0	0	*	*	*
7	*Rattus rattus*	RATTRATT	0	0	0	0	0	1	0	0	0	0	0	0	0	*	*	*
8	*Rattus exulans*	RATTEXUL	0	0	0	0	0	1	1	1	1	0	0	1	1	*	*	*
9	*Rattus tiomanicus*	RATTTIOM	0	0	0	0	0	0	0	0	0	0	0	1	1	*	*	*
10	*Rousettus amplexicaudatus*	ROUSAMPL	0	0	0	0	0	1	0	0	0	0	0	0	0	*	*	*

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Table 7. Site data for large mammals per benchmark sites

NO.	SITE	LAND TYPE	LOCALITY	DATE	CONTACT		LOCAL NAME	COMMON NAME	SPECIES	DIRECT/ INDIRECT	NUMBERS OF INDIV.	DISTANCE (M)	DIRECTION (N-E)	LOCATION	FUNCTION
					NO.	TIME									
1	BS-1	Intact rain	Pasir Mayang	Nov. 19	1	16.30	Monyet ekor panjang	Long-tailed macaques	*Macaca fascicularis*	Direct	7	150	130		
		forest			2	16.35	Simpai	Banded langur	*Presbytis melalophos*	Direct	4	100	120		
					3	16.40	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	100	270		
					4	16.50	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	inside			
					5	17.15	Kalong	Flying fox	*Pteropus vampirus*	Direct	1	inside			
					6	-	Beruang madu	Sun bear	*Helarctos malayanus*	Indirect - TS	1	70	110		
					7	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	50	10		
				Nov. 20	1	6.30	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	100	170		
					2	6.40	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	150	220		
					3	10.56	Owa	Agile gibbon	*Hylobates lar agilis*	Direct	3	150	60		
					4	11.05	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	200	65		
				Nov. 25	1	20.15	Musang	Banded palm cibet	*Hemigalus derbyanus*	Direct	1	200	50		
2	BS-2	Intact rain	Pasir Mayang	Nov. 20	1	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	20	150		
		forest			2	16.40	Beruang madu	Sun bear	*Helarctos malayanus*	Indirect - TS	1	150	170		
				Nov. 21	1	6.35	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	100	240		
					2	6.55	Monyet ekor panjang	Long-tailed macaques	*Macaca fascicularis*	Direct	5	100	175		
3	BS-3	Secondary	Pasir Mayang	Nov. 21	1	16.35	Simpai	Banded langur	*Presbytis melalophos*	Direct	7	50	35		
		forest			2	16.45	Monyet ekor panjang	Long-tailed macaques	*Macaca fascicularis*	Direct	8	75	320		
					3	17.10	Lutung	SIlvered langur	*Trachyphitecus cristatus*	Direct	3	50	340		
				Nov. 22	1	6.30	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	250	30		
					2	6.34	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	400	335		
					3	6.43	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	200	200	Primary	
					4	6.55	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	100	120	forest	
					5	7.15	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	100	165		
					6	7.18	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	150	225	Primary	
					7	7.30	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	50	280	forest	
					8	7.45	Monyet ekor panjang	Long-tailed macaques	*Macaca fascicularis*	Direct	3	40	190		
					9	8.00	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	2	30	265		
4	BS-4	LOA 1983 -1	Pasir Mayang	Nov. 22	1	17.15	Kancil	Lesser mouse-deer	*Tragulus javanicus*	Direct	1	20	145		
					2	17.35	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	40	130		

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Table 7. Site data for large mammals per benchmark sites

NO.	SITE	LAND TYPE	LOCALITY	DATE	CONTACT		LOCAL NAME	COMMON NAME	SPECIES	DIRECT/	NUMBERS	DISTANCE	DIRECTION	LOCATION	FUNCTION
					NO.	TIME				INDIRECT	OF INDIV.	(M)	(N-E)		
					3	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	15	130		
				Nov. 23	1	6.10	Bajing terbang	Whiskered flying squirrel	*Petinomys genigarbis*	Direct	1	200	280		
					2	6.20	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	7	190	260		
					3	6.22	Owa	Agile gibbon	*Hylobates lar agilis*	Direct	1	200	270		
					4	6.40	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	15	310		
					5	7.28	Owa	Agile gibbon	*Hylobates lar agilis*	Direct	4	100	150		
					6	7.45	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	200	60		
					7	8.00	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	inside			
					8	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	200	250		
5	BS-6	P. falcataria	Pasir Mayang	Nov. 24	1	6.30	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	2	150	120	LOA	
		1993/1994 - 1			2	6.35	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	400	350	LOA	
					3	6.40	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	200	300	LOA	
					4	7.10	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	250	210	LOA	
					5	7.12	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	400	250	LOA	
					6	7.15	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	300	280	LOA	
					7	7.40	Bajing	Giant squirrel	*Ratufa affinis*	Direct	1	10	195		
					8	8.00	Beruang madu	Sun bear	*Helarctos malayanus*	Indirect - FP	1	15	210		
					9	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	20	120		
6	BS-8	Rubber	Pasir Mayang	Nov. 24	1	16.34	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	5	50	290		
		plantation			2	17.03	Babi hutan	Bearded pig	*Sus barbatus*	Direct	1	40	310		
					3	17.18	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	30	210		
				Nov. 25	1	6.30	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	50	170		
					2	7.16	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	3	100	355	LOA	
					3	10.50	Kucing hutan	Leopard cat	*Felis bengalensis*	Direct	1	100	80		
7	BS-10	Jungle rubber	Pancuran Gading	Nov. 25	1	16.30	Bajing	Horse-tailed squirrel	*Sundasciurus hippurus*	Direct	1	150	230		
					2	16.35	Bajing	Plantain squirrel	*Callosciurus notatus*	Direct	1	15	240		
					3	16.35	Lutung	Silvered langur	*Trachypithecus cristatus*	Direct	2	40	260		
					4	16.42	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	25	250		
					5	16.45	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	15	265		
					6	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	40	260		
					7	-	Sambar	Sambar deer	*Cervus unicolor*	Indirect - SS	1	70	300		

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Table 7. Site data for large mammals per benchmark sites

NO.	SITE	LAND TYPE	LOCALITY	DATE	CONTACT		LOCAL NAME	COMMON NAME	SPECIES	DIRECT/	NUMBERS	DISTANCE	DIRECTION	LOCATION	FUNCTION
					NO.	TIME				INDIRECT	OF INDIV.	(M)	(N-E)		
				Nov. 26	1	6.30	Tupai tanah	Large treeshrew	*Tupaia tana*	Direct	1	10	260		
					2	6.35	Bajing	Prevost's squirrel	*Callosciurus prevostii*	Direct	1	10	230		
					3	6.41	Tupai	Common treeshrew	*Tupaia glis*	Direct	1	15	280		
					4	6.45	Bajing	Low's squirrel	*Sundasciurus lowii*	Direct	1	10	120		
					5	7.35	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	100	320		
8	BS-14	Cassava	Kuamang Kuning	Nov. 26	1	-	Babi hutan	Domestic pig	*Sus scrofa*	Indirect - FP	1	inside			
					2	-	Sambar	Sambar deer	*Cervus unicolor*	Indirect - FP	1	15	170		
				Nov. 27	-	-									
9	BS-12	Imperata	Kuamang Kuning	Nov. 26	1	-	Babi hutan	Domestic pig	*Sus scrofa*	Indirect - FP	1	inside			
				Nov. 27	-	-									
10	BS-7	P. falcataria	Pasir Mayang	Nov. 27	1	-	Sambar deer	Sambar deer	*Cervus unicolor*	Indirect - FP	1	inside			
		1993/1994 - 2			2	-	Babi hutan	Bearded pig	*Sus barbatus*	Indirect - FP	1	inside			
				Nov. 28	1	6.43	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	750	30	LOA	
					2	6.52	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	800	70	LOA	
11	BS-5	LOA 1983 - 2	Pasir Mayang	Nov. 28	1	16.32	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	150	140		
					2	17.15	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	3	inside			
					3	17.25	Monyet ekor panjang	Long-tailed macaques	*Macaca fascicularis*	Indirect - CS	6	100	125		
					4	17.43	Simpai belang putih	Banded langur (BW)	*Presbytis melalophos*	Direct	1	inside			
				Nov. 29	1	6.30	Owa	Agile gibbon	*Hylobates lar agilis*	Direct	1	inside			
					2	6.31	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	400	30		
					3	7.14	Simpai	Banded langur	*Presbytis melalophos*	Indirect - CS	1	200	140		
					4	7.19	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	200	50		
					5	7.22	Kijang	Barking deer	*Muntiacus muntjak*	Direct	1	150	350		
					6	7.32	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	200	280		
					7	7.53	Owa	Agile gibbon	*Hylobates lar agilis*	Indirect - CS	1	250	115		

ANNEX III

Table 8. Average counts of canopy insects per benchmark sites

No.	Site	Ants	Beet	Spid	Rest	Tt Arth	Isop	Neur	Hem	Hym	Thy	Psoc	Acar	Orth	Dip	Lep	Coll	Blatt	Total
1	**BS1**	41.80	5.30	1.90	80.5	129.4	0.10	0.10	2.00	2.90	1.90	3.70	1.30	0.80	3.40	0.60	7.50	0.50	283.70
2	**BS2**	5.40	3.50	2.10	104.9	116	56.80	0.20	2.50	1.30	0.80	3.80	1.00	0.60	2.60	0.70	4.60	0.40	307.20
3	**BS3**	36.00	6.00	4.90	31.2	78	0.70	0.20	8.00	3.70	2.70	4.60	2.40	1.50	3.40	1.50	3.70	1.80	190.30
4	**BS4**	8.00	8.20	5.60	44.7	66.6	0.00	0.10	6.10	3.30	8.50	7.10	2.40	0.60	4.50	0.80	5.40	0.20	172.10
5	**BS5**	16.60	5.30	4.80	111.8	161.5	168.10	0.20	7.90	3.90	3.10	5.80	0.60	1.50	7.50	1.50	4.60	0.40	505.10
6	**BS6**	8.20	3.30	2.50	8.5	22.5	0.00	0.00	2.30	1.20	0.60	3.90	0.20	0.00	0.80	0.70	0.00	0.00	54.70
7	**BS7**	21.00	2.80	4.40	23.9	53.2	0.00	0.00	10.80	3.10	2.80	0.60	0.40	0.00	6.20	5.80	0.00	0.00	135.00
8	**BS8**	3.50	3.80	2.80	23.3	35.8	0.10	0.30	2.10	2.80	3.60	2.30	0.20	0.30	14.10	0.40	0.10	0.10	95.60
9	**BS9**	0.60	10.80	4.10	25.7	41.2	0.00	0.20	1.00	3.20	5.40	4.90	0.20	0.10	9.90	0.40	0.60	0.00	108.30
10	**BS10**	49.20	13.20	4.10	46.1	112.5	0.00	0.00	6.20	4.40	16.60	2.50	0.20	1.30	7.30	2.40	1.20	0.40	267.60
11	**BS11**	158.90	29.20	13.30	91.8	293	1.40	0.00	11.70	9.10	11.60	9.00	0.80	2.10	10.80	2.20	2.30	2.20	649.40
12	**BS12**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
13	**BS13**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
14	**BS14**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
15	**BS15**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
16	**BS16**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
17	**Total**	349.20	91.40	50.50	592.4	1109.7	227.20	1.30	60.60	38.90	57.60	48.20	9.70	8.80	70.50	17.00	30.00	6.00	2769.00

Beet: Beetles; Spid: Spiders; Rest= unident. Tt Arth: Total Arthropods; Isop: Isoptera; Neur: Neuroptera; Hem: Hemiptera; Hym: Hymenoptera; Thy: Thysanoptera: Psoc: Psocoptera: Acar: Acari: Orth: Orthoptera; Dip: Diptera; Lep: Lepidoptera; Coll: Collembola; Blatt: Blattodea.

ANNEX III

Table 9. Beetle trophic groups, example from site 1 (BS01)

SITE	HABITAT	TRAY-NO	FAMILY	FAM-NO	SPEC-NO	TROPHIC LEVEL-PRIMARY	TROPHIC LEVEL-SECONDARY
BS01	INTACT RAINFOREST	35	SCARABAEIDAE	8	8.01	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	28	SCARABAEIDAE	8	8.02	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	47	SCARABAEIDAE	8	8.03	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	30	SCARABAEIDAE	8	8.05	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	30	ELATERIDAE	12	12.15	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	50	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	44	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	30	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	44	ELATERIDAE	12	12.16	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	33	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	34	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	33	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	31	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	37	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	45	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	30	ELATERIDAE	12	12.17	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	46	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	49	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	39	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	41	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	29	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	29	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	ELATERIDAE	12	12.21	phytophages:chewers	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	MORDELLIDAE	28	28.04	phytophages:chewers	
BS01	INTACT RAINFOREST	33	MORDELLIDAE	28	28.12	phytophages:chewers	
BS01	INTACT RAINFOREST	41	MORDELLIDAE	28	28.12	phytophages:chewers	
BS01	INTACT RAINFOREST	46	MORDELLIDAE	28	28.16	phytophages:chewers	
BS01	INTACT RAINFOREST	46	CHRYSOMELIDAE	33	33.08	phytophages:chewers	
BS01	INTACT RAINFOREST	36	CHRYSOMELIDAE	33	33.13	phytophages:chewers	
BS01	INTACT RAINFOREST	47	CHRYSOMELIDAE	33	33.34	phytophages:chewers	
BS01	INTACT RAINFOREST	33	CHRYSOMELIDAE	33	33.36	phytophages:chewers	
BS01	INTACT RAINFOREST	28	CHRYSOMELIDAE	33	33.48	phytophages:chewers	
BS01	INTACT RAINFOREST	30	BRENTIDAE	36	36.01	phytophages:chewers	
BS01	INTACT RAINFOREST	27	CERAMBYCIDAE	32	32.15	phytophages:chewers	
BS01	INTACT RAINFOREST	35	CURCULIONIDAE	37	37.2	phytophages:chewers	
BS01	INTACT RAINFOREST	44	CURCULIONIDAE	37	37.21	phytophages:chewers	
BS01	INTACT RAINFOREST	43	CURCULIONIDAE	37	37.31	phytophages:chewers	
BS01	INTACT RAINFOREST	34	CURCULIONIDAE	37	37.34	phytophages:chewers	
BS01	INTACT RAINFOREST	47	CURCULIONIDAE	37	37.48	phytophages:chewers	
BS01	INTACT RAINFOREST	49	CURCULIONIDAE	37	37.49	phytophages:chewers	
BS01	INTACT RAINFOREST	41	CURCULIONIDAE	37	37.52	phytophages:chewers	
BS01	INTACT RAINFOREST	44	CURCULIONIDAE	37	37.54	phytophages:chewers	
BS01	INTACT RAINFOREST		CURCULIONIDAE	37	37.55	phytophages:chewers	
BS01	INTACT RAINFOREST	46	STAPHYLINIDAE	6	6.15	predators	scavengers,dead wood,fungal feeders

ANNEX III

Table 9. Beetle trophic groups, example from site 1 (BS01)

SITE	HABITAT	TRAY-NO	FAMILY	FAM-NO	SPEC-NO	TROPHIC LEVEL-PRIMARY	TROPHIC LEVEL-SECONDARY
BS01	INTACT RAINFOREST	50	STAPHYLINIDAE	6	6.16	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	46	STAPHYLINIDAE	6	6.2	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	43	STAPHYLINIDAE	6	6.22	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	36	STAPHYLINIDAE	6	6.25	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	44	STAPHYLINIDAE	6	6.25	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	44	STAPHYLINIDAE	6	6.25	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	STAPHYLINIDAE	6	6.25	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	37	STAPHYLINIDAE	6	6.26	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	35	STAPHYLINIDAE	6	6.27	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	36	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	27	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	34	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	46	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	31	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	47	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	47	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	47	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	42	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	49	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	36	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	39	STAPHYLINIDAE	6	6.29	predators	scavengers,dead wood,fungal feeders
BS01	INTACT RAINFOREST	27	CARABIDAE	1	1.03	predators	
BS01	INTACT RAINFOREST	36	CLERIDAE	17	17.10	predators	
BS01	INTACT RAINFOREST	28	COCCINELLIDAE	24	24.09	predators	
BS01	INTACT RAINFOREST	46	COCCINELLIDAE	24	24.1	predators	
BS01	INTACT RAINFOREST	45	COCCINELLIDAE	24	24.13	predators	
BS01	INTACT RAINFOREST	43	COCCINELLIDAE	24	24.16	predators	
BS01	INTACT RAINFOREST	42	COCCINELLIDAE	24	24.18	predators	
BS01	INTACT RAINFOREST	42	COCCINELLIDAE	24	24.29	predators	
BS01	INTACT RAINFOREST	47	COCCINELLIDAE	24	24.31	predators	
BS01	INTACT RAINFOREST	45	COCCINELLIDAE	24	24.31	predators	
BS01	INTACT RAINFOREST	43	COCCINELLIDAE	24	24.31	predators	
BS01	INTACT RAINFOREST	44	TENEBRIONIDAE	29	29.03	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	47	TENEBRIONIDAE	29	29.04	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	28	TENEBRIONIDAE	29	29.1	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	46	TENEBRIONIDAE	29	29.22	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	46	TENEBRIONIDAE	29	29.24	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	28	TENEBRIONIDAE	29	29.25	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	37	TENEBRIONIDAE	29	29.33	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	38	TENEBRIONIDAE	29	29.4	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	35	TENEBRIONIDAE	29	29.61	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	43	ANTHRIBIDAE	34	34.04	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	28	ANTHRIBIDAE	34	34.06	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	49	ANTHRIBIDAE	34	34.12	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	23	ANTHRIBIDAE	34	34.21	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	26	ANTHRIBIDAE	34	34.26	scavengers,dead wood,fungal feeders	phytophages:chewers
BS01	INTACT RAINFOREST	49	NITIDULIDAE	19	19.01	scavengers,dead wood,fungal feeders	predators
BS01	INTACT RAINFOREST	45	THROSCIDAE	11	11.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	35	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	44	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	44	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	44	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	44	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	

ANNEX III

Table 9. Beetle trophic groups, example from site 1 (BS01)

SITE	HABITAT	TRAY-NO	FAMILY	FAM-NO	SPEC-NO	TROPHIC LEVEL-PRIMARY	TROPHIC LEVEL-SECONDARY
BS01	SECOND. RAINFOREST	39	LATRIDIIDAE	26	26.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	49	ANOBIIDAE	16	16.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	50	ANOBIIDAE	16	16.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	37	ANOBIIDAE	16	16.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	33	ANOBIIDAE	16	16.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	46	ANOBIIDAE	16	16.07	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	CORYLOPHIDAE	25	25.12	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	41	CORYLOPHIDAE	25	25.3	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	ANTHICIDAE	30	30.05	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	43	ADERIDAE	31	31.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	44	ADERIDAE	31	31.01	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	49	ADERIDAE	31	31.02	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	ADERIDAE	31	31.06	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	35	ADERIDAE	31	31.06	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	30	ADERIDAE	31	31.11	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	29	ADERIDAE	31	31.14	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	43	PHALACRIDAE	21	21.07	scavengers,dead wood,fungal feeders	
BS01	INTACT RAINFOREST	42	PHALACRIDAE	21	21.08	scavengers,dead wood,fungal feeders	

ANNEX III

Table 10. Lepidoptera family richness per land use type

No.	Family	BS1	BS3	BS4	BS6	BS10	BS12	BS14
1	Arctuidae	1	1	1	1	1	*	1
2	Cossidae	*	1	1	1	*	*	*
3	Danaidae	1	1	1	*	1	1	*
4	Geometridae	1	1	1	1	1	1	*
5	Laciocompidae	1	*	1	1	*	*	*
6	Lycaenidae	*	*	1	*	*	*	*
7	Lymantridae	1	1	*	*	1	*	*
8	Noctuidae	1	1	1	1	1	*	1
9	Notodontidae	1	1	*	*	*	*	*
10	Nymphalidae	1	*	1	1	1	1	*
11	Papilionidae	1	1	1	1	1	*	*
12	Pteridae	1	1	1	1	1	*	1
13	Pyralidae	1	1	1	*	1	*	*
14	Saturnidae	1	1	1	1	1	*	*
15	Satyridae	*	1	*	*	1	1	1
16	Riodinidae	1	*	*	*	*	*	*
17	Hispridae	*	1	1	*	1	*	*
18	Sphingdae	1	1	1	*	*	*	1
	Total famili	14	14	14	9	12	4	5

ANNEX III

Table 11. Termite species list per benchmark site

No.	Family		Species	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	S9	BS10	S11	S12	BS13	S14	BS15	BS16	Total
1	Rhinotermitidae	1	Coptotermes sp1	1	*	1	*	*	1	*	1	*	1	*	0	*	0	*	*	5
		2	Coptotermes sp2	0	*	0	*	*	1	*	0	*	0	*	0	*	0	*	*	1
		3	Coptotermes sp3	0	*	0	*	*	1	*	0	*	0	*	0	*	0	*	*	1
		4	Parrhinotermes sp1	0	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	2
		5	Schedorhinotermes sp1	1	*	0	*	*	1	*	1	*	0	*	0	*	0	*	*	3
		6	Schedorhinotermes sp2	1	*	1	*	*	1	*	1	*	1	*	0	*	0	*	*	5
		7	Schedorhinotermes sp3	0	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	2
		8	Heterotermes sp1	1	*	0	*	*	0	*	0	*	0	*	0	*	0	*	*	1
2	Macrotermitinae	9	Macrotermes sp1	1	*	0	*	*	0	*	0	*	0	*	0	*	0	*	*	1
		10	Macrotermes sp2	0	*	0	*	*	0	*	0	*	0	*	0	*	1	*	*	1
		11	Odontotermes sp1	1	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	3
		12	Ancistrotermes sp1	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
3	Termitinae	13	Prohamitermes sp1	1	*	1	*	*	1	*	1	*	0	*	0	*	0	*	*	4
		14	Labritermes sp1	0	*	0	*	*	0	*	1	*	1	*	0	*	0	*	*	2
		15	Globitermes sp1	1	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	3
		16	Globitermes sp2	1	*	1	*	*	0	*	0	*	0	*	1	*	0	*	*	3
		17	Microcerotermes sp1	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		18	Microcerotermes sp1	0	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	1
		19	Termes sp1	0	*	0	*	*	1	*	0	*	0	*	0	*	0	*	*	1
		20	Termes sp2	1	*	0	*	*	1	*	1	*	0	*	0	*	0	*	*	3
		21	Termes sp3	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		22	Homallotermes sp1	1	*	0	*	*	0	*	1	*	0	*	0	*	0	*	*	2
		23	Homallotermes sp2	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		24	Microcapritermes sp1	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
		25	Procapritermes sp1	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		26	Procapritermes sp2	1	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	3

ANNEX III

Table 11. Termite species list per benchmark site

No.	Family		Species	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	S9	BS10	S11	S12	BS13	S14	BS15	BS16	Total
		27	Procapritermes sp3	1	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	2
		28	Procapritermes sp4	1	*	1	*	*	0	*	1	*	1	*	0	*	0	*	*	4
		29	Procapritermes sp5	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
		30	Procapritermes sp6	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
		31	Kemneritermes sp1	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		32	Coxocapritermes sp1	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		33	Coxocapritermes sp2	0	*	1	*	*	0	*	0	*	1	*	0	*	0	*	*	2
		34	Pericapritermes sp1	1	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	2
		35	Pericapritermes sp2	1	*	0	*	*	0	*	0	*	0	*	1	*	0	*	*	2
		36	Pericapritermes sp3	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
		37	Dicuspiditermes sp1	1	*	1	*	*	0	*	1	*	1	*	0	*	0	*	*	4
		38	Dicuspiditermes sp2	1	*	1	*	*	0	*	1	*	1	*	0	*	0	*	*	4
4	Nasutiterminitae	39	Havilanditermes sp1	0	*	0	*	*	0	*	1	*	0	*	0	*	0	*	*	1
		40	Nasutitermes sp1	1	*	0	*	*	1	*	0	*	0	*	0	*	0	*	*	2
		41	Nasutitermes sp2	1	*	0	*	*	1	*	1	*	1	*	0	*	0	*	*	4
		42	Nasutitermes sp3	1	*	0	*	*	0	*	0	*	0	*	0	*	0	*	*	1
		43	Nasutitermes sp4	0	*	0	*	*	0	*	0	*	1	*	0	*	0	*	*	1
		44	Nasutitermes sp5	0	*	0	*	*	0	*	1	*	0	*	0	*	0	*	*	1
		45	Bulbitermes sp1	1	*	1	*	*	0	*	0	*	0	*	0	*	0	*	*	2
		46	Bulbitermes sp2	1	*	0	*	*	0	*	0	*	0	*	0	*	0	*	*	1
		47	Hospitalitermes sp1	0	*	0	*	*	0	*	1	*	0	*	0	*	0	*	*	1
		48	Hospitalitermes sp2	1	*	0	*	*	0	*	0	*	0	*	0	*	0	*	*	1
			Total	**30**	*****	**21**	*****	*****	**10**	*****	**14**	*****	**21**	*****	**2**	*****	**1**	*****	*****	**99**

ANNEX III

Table 12. 1. Seven landuse types selected for ant and other macrofaunal sampling in Pasir Mayang and adjacent areas of central Sumatra

Site coding	Dominant vegetation form and botany	General character	GPS reference and elevation	Site physical	Soil	Production, deadwood and litter
BS 1	***Intact rainforest***	A small area of pristine lowland forest on	01-04-47 S	Slope 25%	pH (H_2O) 4.0	Green biomass 0.133 kg m^{-2}
	Canopy height 21 m	a moderately steep slope, well drained	102-06-02 E	Aspect 7^o	C org 4.01%	Litter 1.37 kg m^{-2}
	-103 plant species	with closed stratified canopy and	Pasir Mayang	Soil depth >100 cm	C/N ratio 14.3	Litter depth 10 cm
	-37 functional modi	generally light understorey. Tree	76 m asl	Upper slope	Ca 1.65 Al sat 53.0**	Dead wood 21.3 kg m^{-2}
	-75% crown cover	buttresses and stilts present.			S/S/C 62/24/14	
	-27.33 basal area*				ECEC 7.91***	
	-50 trees $plot^{-1}$					
BS 3	***Secondary rainforest***	A ridge-top site contiguous with BS1 but	01-04-43 S	Slope 12%	pH (H_2O) 4.5	Green biomass 0.045 kg m^{-2}
	Canopy height 10 m	logged-over with secondary regrowth on	102-05-55 E	Aspect 150^o	C org 1.85%	Litter 1.50 kg m^{-2}
	-50 plant species	old log collection points and skid trails.		Soil depth >100 cm	C/N ratio 14.2	Litter depth 15 cm
	-20 functional modi	Transects and pitfalls placed to run	Pasir Mayang	Ridge top	Ca 1.55 Al sat 47.6**	Dead wood15.8 kg m^{-2}
	35-% crown cover	through secondary areas. Generally	85m asl		S/S/C/ 54/8/38	
	-13.33 basal area*	closed canopy but of limited stratification.			ECEC 6.16***	
	-11 trees $plot^{-1}$	High liana/creeper burden				
BS 6	**Young *Paraserianthes plantation*** 3/4 yrs	A heavily disturbed site with line planted	01-05-59 S	Slope 20%	pH (H_2O) 4.4	Green biomass 0.247 kg m^{-2}
	Canopy height 6 m	sengon trees established after complete	102-06-43 E	Aspect 202 ^{o}	C org 2.78%	Litter 1.78 kg m^{-2}
	-42 plant species	clearance. Canopy very open and the	Pasir Mayang	Soil depth >100 cm	C/N ratio 16.4	Litter depth 3 cm
	-27 functional modi	ground with a heavy load of dead wood.	65 m asl	Upper slope	Ca 2.04 Al sat 41.5**	Dead wood 14.90 kg m^{-2}
	-40% crown cover				S/S/C 84/8/8	
	-6.00 basal area*				ECEC 6.29***	
	-8 trees $plot^{-1}$					
BS 8	***Rubber plantation, 8 yrs***	A mature monospecific plantation in	01-05-25 S	Slope 3%	pH (H_2O) 4.6	Green biomass 0.107 kg m^{-2}
	Canopy height 11 m	current production for latex, located on a	102-07-05 E	Aspect 183^o	C org 5.97%	Litter 0.77 kg m^{-2}
	-68 plant species	gentle slope upper to ridge top. Canopy	Pasir Mayang	Soil depth >100 cm	C/N ratio 15.7	Litter depth 5 cm
	-37 functional modi	closure complete and herb/understorey	53 m asl	Gentle ridge top	Ca 2.41 Al sat 15.7**	Dead wood 7.67 kg m^{-2}
	-65% crown cover	layers very sparse. Large decaying tree			S/S/C 14/27/59	
	-14.67 basal area*	trunks from previous forest clearance			ECEC 9.94***	
	-14 trees plot-**1**	present with moderate dead wood load.				
BS 10	***Jungle rubber, 15-38 yrs***	Mixture of old rubber trees still in	01-10-12 S	Slope 0%	pH (H_2O) 5.2	Green biomass 0.033 kg m^{-2}
	Canopy height 14 m	production and secondary forest regrowth	102-06-50 E	Aspect 0^o	C org 6.23%	Litter 0.62 kg m^{-2}
	-115 plant species	with high liana/creeper burden. About 25-	Pancuran	Soil depth >100 cm	C/N ratio13.5	Litter depth 8 cm
	-47 functional modi	30 yrs. old, at end of cycle ready for	Gading	Flat ground	Ca 2.37 Al sat 49.5	Dead wood 13.5 kg m^{-2}
	-50% crown cover	felling. Canopy closure ± complete and	30 m asl		S/S/C 6/70/24	
	-18.00 basal area*	well stratified. Flat site , riverine.			ECEC 10.72	
	-22 trees $plot^{-1}$					
BS 12	***Imperata cylindrica*** **grassland: "alang-alang"**	Large open ridge-top site devoid of trees	01-36-05 S	Slope 5%	pH (H_2O) 5.8	Green biomass 0.227 kg m^{-2}
	Canopy height 1 m	with knee-high uniform stand of course	102-21-22 E.	Aspect 225^o	C org 2.19%	Litter 0.11 kg m^{-2}
	-11 plant species	grass. Little or no dead wood. Ground	Kuamang	Soil depth >100 cm	C/N ratio 16.8	Litter depth 0.1 cm
	-10 functional modi	cracked and very hard.	Kuning	Ridge	Ca 11.56 Al sat 22.4**	Dead wood absent
	-no trees		40 m asl		S/S/C 66/14/20	
					ECEC 5.39***	
BS 14	***Cassava garden, 10 yrs***	Open ridge-top site with line-planted	01-35-58 S	Slope 0%	pH (H_2O) 5.0	Green biomass 0.207 kg m^{-2}
	Canopy height 2 m	cassava, about 2 yrs old.	102-21-11 E	Aspect 0^o	C org 1.51%	Litter 0.06 kg m^{-2}
	-15 plant species	Weeded to prevent growth of other	Kuamang	Soil depth >100 cm	C/N ratio 13.7	Litter depth 0.5 cm
	-12 functional modi	vegetation. Ground very disturbed but	Kuning	Ridge top	Ca 1.02 Al sat 46.0	Dead wood absent
	-50% canopy cover	little or no dead wood.	48 m asl		S/S/C 61/16/23	
	-no trees				ECEC 4.76***	

ANNEX III

Table 12. 2. Jambi all ant numerical density

Site	Arithmetical mean, nos m^{-2} (n=5)	Geometric mean, nos m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	352	23	1-1348
BS3, Logged over	522	239	28-2004
BS6, *Paraserianthes*	522	223	24-2065
BS8, Rubber	134	17	1-529
BS10, Jungle rubber	541	226	24-2123
BS12, Alang-alang	80	15	1-833
BS14, Cassava	48	6	1-131
Stratum level (all sites averaged)	**Arithmetical mean, nos m^{-2} (n=5)**	**Geometric mean, nos m^{-2} (n=5)***	**95% confidence limits***
Litter	102	52	20-134
0-10 cm	158	136	81-230
10-20 cm	47	24	8-68
20-30 cm	7	4	3-75

* back-transformed

Parametric ANOVAS:

One way: monoliths averaged across sites:

Between treatments (sites): $F_{(6,28)} = 2.10$; ns .

Between strata: $F_{(3,16)} = 2.39$; ns.

Two way: monoliths treated as replicates:

Between treatments (sites): $F_{(6, 112)} = 2.68$; $p<0.025>0.01$.

Between samples (strata): $F_{(3,112)} = 5.89$; $p<0.001$.

Interactions between sites and strata: $F_{(18,112)} = 0.76$; ns.

ANNEX III

Table 12. 3. Jambi ant biomass

Site	Arithmetical mean, g m^{-2} (n=5)	Geometric mean, g m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	0.346	0.024	0.004- 1.430
BS3, Logged over	0.285	0.189	0.049 - 0.721
BS6, *Paraserianthes*	4.889	0.350	0.012 – 9.862
BS8, Rubber	0.102	0.015	0.001 - 0.425
BS10, Jungle rubber	0.857	0.238	0.018 – 3.090
BS12, Alang-alang	0.030	0.010	0.002 - 0.157
BS14, Cassava	0.336	0.022	0.001 – 1.217

Stratum level (all sites averaged)	Arithmetical mean, g m^{-2} (n=5)	Geometric mean, g m^{-2} (n=5)*	95% confidence limits*
Litter	0.076	0.035	0.010 - 0.122
0-10 cm	0.825	0.210	0.048 - 0.918
10-20 cm	0.079	0.034	0.010 - 0.116
20-30 cm	0.024	0.036	0.011 - 0.122

* back-transformed

Parametric ANOVAS:

<u>One way</u>, monoliths averaged across sites:

Between treatments (sites): $F_{(6,28)} = 1.22$; ns .

Between strata: $F_{(3,16)} = 1.28$; ns.

<u>Two way</u>: monoliths treated as replicates:

Between treatments (sites): $F_{(6, 112)} = 2.47$; $p<0.05>0.025$.

Between samples (strata): $F_{(3,112)} = 3.81$; $p<0.025>0.01$.

Interaction between sites and strata: $F_{(18,112)} = 0.75$; ns.

ANNEX III

Table 12. 4. Jambi all termite numerical density

Site	Arithmetical mean, nos m^{-2} (n=5)	Geometric mean, nos m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	2892	971	190-4966
BS3, Logged over	163	65	12-364
BS6, *Paraserianthes*	512	47	1-1923
BS8, Rubber	128	11	2-201
BS10, Jungle rubber	211	25	2-1107
BS12, Alang-alang	3	2	0-8
BS14, Cassava	26	10	0-124
Stratum level (all sites averaged)	**Arithmetical mean, nos m^{-2} (n=5)**	**Geometric mean, nos m^{-2} (n=5)***	**95% confidence limits***
Litter	46	15	3-64
0-10 cm	106	80	43-148
10-20 cm	55	44	24-78
20-30 cm	49	4	1-50

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 4.064$; p= 0.005

Betweeen strata: $F_{(3,16)} = 2.299$; not significant.

ANNEX III

Table 12. 5. Jambi all termite biomass

Site	Arithmetical mean, g m^{-2} (n=5)	Geometric mean, g m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	5.59	2.77	0.90-14.67
BS3, Logged over	0.09	0.10	0.01-0.26
BS6, *Paraserianthes*	0.59	0.47	0.01-1.50
BS8, Rubber	0.07	0.06	0-0.22
BS10, Jungle rubber	0.49	0.35	0-1.38
BS12, Alang-alang	<0.01	<0.01	0-0.012
BS14, Cassava	0.02	0.02	0-0.06
Stratum level (all sites averaged)	**Arithmetical mean, g m^{-2} (n=5)**	**Geometric mean, g m^{-2} (n=5)***	**95% confidence limits***
Litter	0.08	0.06	0-0.14
0-10 cm	0.78	0.43	0.11-1.45
10-20 cm	0.07	0.06	0.03-0.11
20-30 cm	0.04	0.03	0-0.08

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 4.47$; p= <0.025>0.001.

Betweeen strata: $F_{(3,16)} = 3.94$; p <0.05>0.025.

ANNEX III

Table 12. 6. Jambi all macroarthropods numerical density

Site	Arithmetical mean, nos m^{-2} (n=5)	Geometric mean, nos m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	3668	2455	630-9120
BS3, Logged over	713	331	86-788
BS6, *Paraserianthes*	1312	630	184-2152
BS8, Rubber	397	346	177-679
BS10, Jungle rubber	830	512	219-1202
BS12, Alang-alang	86	30	2-429
BS14, Cassava	160	148	86-253
Stratum level (all sites averaged)	**Arithmetical mean, nos m^{-2} (n=5)**	**Geometric mean, nos m^{-2} (n=5)***	**95% confidence limits***
Litter	193	184	143-237
0-10 cm	517	343	153-767
10-20 cm	87	77	52-119
20-30 cm	69	38	14-111

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 7.22$; $p = 0.005$

Betweeen strata: $F_{(3,16)} = 5.60$; $p < 0.01$.

ANNEX III

Table 12. 7. Jambi all macroarthropods biomass

Site	Arithmetical mean, g m^{-2} (n=5)	Geometric mean, g m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	8.99	5.08	1.23-20.68
BS3, Logged over	1.89	1.82	1.09-2.80
BS6, *Paraserianthes*	5.79	2.13	0.12-7.79
BS8, Rubber	2.27	1.55	0.01-5.61
BS10, Jungle rubber	6.08	3.99	0.67-13.89
BS12, Alang-alang	0.64	0.44	0.01–1.76
BS14, Cassava	0.67	0.66	0.38-1.00
Stratum level (all sites averaged)	**Arithmetical mean, g m^{-2} (n=5)**	**Geometric mean, g m^{-2} (n=5)***	**95% confidence limits***
Litter	1.39	1.12	0.62-1.97
0-10 cm	1.57	1.17	0.57-2.28
10-20 cm	1.73	0.23	0.12-0.34
20-30 cm	0.21	0.18	0.09-0.32

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 3.43$; p= <0.05.

Betweeen strata: $F_{(3,16)} = 8.45$; p <0.005.

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Table 12. 8. Jambi earthworms numerical density

Site	Arithmetical mean, nos m^{-2} (n=5)	Geometric mean, nos m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	3	2	1-8
BS3, Logged over	6	2	1-14
BS6, *Paraserianthes*	195	186	116-297
BS8, Rubber	35	6	1-123
BS10, Jungle rubber	576	565	428-743
BS12, Alang-alang	26	14	2-103
BS14, Cassava	102	53	12-228
Stratum level (all sites averaged)	**Arithmetical mean, nos m^{-2} (n=5)**	**Geometric mean, nos m^{-2} (n=5)***	**95% confidence limits***
Litter	0	0	-
0-10 cm	109	82	47-138
10-20 cm	4	1	1-7
20-30 cm	0	0	-

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 12.31$; p= <0.001

Betweeen strata: $F_{(3,16)} = 36.47$; p <0.001.

ANNEX III

Table 12. 9. Jambi earthworm biomass

Site	Arithmetical mean, g m^{-2} (n=5)	Geometric mean, g m^{-2} (n=5)*	95% confidence limits*
BS1, Primary forest	0.032	0.01	0-0.046
BS3, Logged over	0.064	0.06	0-0.09
BS6, *Paraserianthes*	11.42	8.40	2.21-26.49
BS8, Rubber	0.77	0.53	0-2.18
BS10, Jungle rubber	60.16	33.59	11.92-91.81
BS12, Alang-alang	0.83	0.12	0.037-1.224
BS14, Cassava	4.67	2.79	1.11-11.03
Stratum level (all sites averaged)	**Arithmetical mean, g m^{-2} (n=5)**	**Geometric mean, gm^{-2} (n=5)***	**95% confidence limits***
Litter	0	-	-
0-10 cm	10.80	9.67	7.82-11.88
10-20 cm	0.11	0.04	0-0.10
20-30 cm	0	-	-

* back-transformed.

Parametric ANOVAs:

Between treatments (sites): $F_{(6,28)} = 20.4$; $p < 0.001$.

Betweeen strata: $F_{(3,16)} = 489.9$; $p<0.001$.

ANNEX III

Table 12.10. Matrices showing differences between treatments (sites) by 7 single biotic parameters.

For each parameter, overall ANOVA is carried out by the non-parametric Kruskal-Wallis method and pairwise site comparisons by one-tailed Mann-Whitney. * p <0.05; ** p<0.025; *** p <0.005. Numbers in brackets refer to the sites. ns, not significant (p>0.05).

1. Ant abundance.

H = 8.9, ns.

BS1							
BS3	ns						
BS6	ns	ns					
BS8	ns	ns	ns				
BS10	ns	ns	ns	*(10>8)			
BS12	ns	*(3>12)	*(6>12)	ns	*(10>12)		
BS14	ns	*(3>14)	*(6>14)	ns	*(10>14)	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

2. Ant biomass.

H = 6.8, ns.

BS1							
BS3	ns						
BS6	ns	ns					
BS8	ns	*(3>8)	ns				
BS10	ns	ns	ns	ns			
BS12	ns	**(3>12)	*(6>12)	ns	*(10>12)		
BS14	ns	ns	ns	ns	ns	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

3. Termite abundance

H = 14.64; p<0.025>0.01.

BS1							
BS3	**(1>3)						
BS6	ns	ns					
BS8	**(1>8)	ns	ns				
BS10	**(1>10)	ns	ns	ns			
BS12	***(1>12)	**(3>12)	*(6>12)	ns	ns		
BS14	***(1>14)	ns	ns	ns	ns	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

4. Termite biomass.

H = 16.49; p<0.025>0.01.

BS1							
BS3	*(1>3)						
BS6	ns	ns					
BS8	***(1>8)	ns	ns				
BS10	*(1>10)	ns	ns	ns			
BS12	***(1>12)	***(3>12)	*(6>12)	ns	ns		
BS14	***(1>14)	ns	ns	ns	ns	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

ANNEX III

Table 12.10. Matrices showing differences between treatments (sites) by 7 single biotic parameters.

5. <u>All macroarthropod abundance.</u>

H = 21.4; p<0.005.

BS1							
BS3	**(1>3)						
BS6	ns	ns					
BS8	**(1>8)	ns	ns				
BS10	**(1>10)	ns	ns	ns			
BS12	***(1>12)	ns	**(6>12)	**(8>12)	**(10>12)		
BS14	***(1>14)	ns	*(6>14)	**(8>14)	***(10>14)	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

6. <u>All macroarthropod biomass</u>.

H = 15.37; p <0.025>0.01.

BS1							
BS3	*(1>3)						
BS6	ns	ns					
BS8	ns	ns	ns				
BS10	ns	ns	ns	ns			
BS12	**(1>12)	ns	*(6>12)	*(8>12)	*(10>12)		
BS14	***(1>14)	**(3>14)	ns	ns	***(10>14)	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

7. <u>Earthworm abundance</u>.

H = 24.0; p<0.005.

BS1							
BS3	ns						
BS6	***(6>1)	***(6>3)					
BS8	ns	ns	**(6>8)				
BS10	***(10>1)	***(10>3)	***(10>6)	***(10>8)			
BS12	*(12>1)	ns	***(6>12)	ns	***(10>12)		
BS14	**(14>1)	**(14>3)	ns	ns	***(10>12	ns	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

8. <u>Earthworm biomass</u>.

H = 25.05; p<0.005.

BS1							
BS3	ns						
BS6	***(6>1)	***(6>3)					
BS8	ns	ns	***(6>8)				
BS10	***(10>1)	***(10>3)	ns	***(10>12)			
BS12	*(12>1)	ns	***(6>12)	ns	***(10>12)		
BS14	***(14>1)	**(14>3)	*(6>14)	ns	**(10>14)	*(14>12)	
	BS1	**BS3**	**BS6**	**BS8**	**BS10**	**BS12**	**BS14**

ANNEX III

Table 12. 11. Site species lists for ants. Pitfall and monolith data combined.

Taxon	BS 1	BS 3	BS 6	BS 8	BS 10	BS 12	BS 14	Total sites
Dorylinae								
Dorylus laevigatus Smith					X			1
Formicinae								
Anoplolepis longipes Jerdon	X		X			X		3
Camponotus gigas Mayr	X	X	X	X	X			5
Camponotus sp. 1	X		X				X	3
Colobobsis sp.		X	X					2
Paratrechina sp. 1		X		X				2
Paratrechina sp. 2			X	X	X	X	X	5
Paratrechina sp. 3		X				X		2
Polyrachis enermis Fr. Smith		X						1
Polyrachis nigripilosa Mayr		X	X		X			3
Polyrachis tyranica Smith			X		X			2
Polyrachis sp. 1						X		1
Polyrachis sp. 2	X							1
Myrmecinae								
Acanthomyrmex ferox Emery				X	X	X		3
Cataulacus horridus Fr. Smith		X						1
Crematogaster sp. 1	X	X	X		X			4
Crematogaster sp. 2	X		X	X	X			4
Crematogaster sp. 3		X	X			X	X	4
Crematogaster sp. 4			X		X	X	X	4
Crematogaster sp. 5					X	X		2
Crematogaster sp. 6			X					1
Crematogaster sp. 7			X					1
Lophomyrmex betodi Emery	X			X	X			3
Myrmecina sp.					X			1
Myrmicaria sp.					X			1
Pheidole sp. 1	X	X			X			3
Pheidole sp. 2		X	X		X	X		4
Pheidole sp. 3	X	X	X	X			X	5
Pheidole sp. 4	X	X			X		X	4
Pheidole sp. 5		X		X	X	X	X	5
Pheidolegeton sp.			X		X	X		3
Proatta buteli Forel	X	X		X				3
Strumigenys sp.				X				1
Tetramorium bicarinatum	X		X		X	X	X	5
Ponerinae								
Anochetus sp. 1					X			1
Anochetus sp. 2	X	X	X	X				4
Brachiponera liteipes Mayr	X		X			X		3
Diacamma intricatum Fr. Smith					X			1
Diacamma vagans Fr. Smith					X			1
Myopias sp.								
Mystrium sp.					X			1
Odontomachus rixosus Fr. Smith	X	X	X	X	X			5
Odontomachus sp.			X					1
Odontoponera nitens Creigaton				X	X			2
Odontoponera transversa Fr. Smith		X		X	X			3
Pachycondyla sp. 1	X				X			2
Pachycondyla sp. 2					X			1
Leptanillinae								
Protanilla sp.				X				1

ANNEX III

Table 12. 11. Site species lists for ants. Pitfall and monolith data combined.

Taxon	BS 1	BS 3	BS 6	BS 8	BS 10	BS 12	BS 14	Total sites
Pseudomyrmicinae								
Teraponera sp. 1			X					1
Teraponera sp. 2					X			
Cerapachyinae								
Cerapachys sp.				X				1
Dolichoderinae								
Dolichoderus sp. 1					X			1
Dolichoderus sp. 2					X			1
Tapinoma sp. 1						X		1
Tapinoma sp. 2			X		X			2
Technomyrmex sp. 1			X		X			2
Technomyrmex sp. 2						X	X	2
Total species richness	16	18	24	16	33	15	9	(all sites) 57

Higher taxonomic richness (number of subfamilies) was:

- BS1: 3
- BS3: 3
- BS6: 5
- BS8: 5
- BS10: 6
- BS12: 4
- BS14: 3

ANNEX III

Table 13. Primary data catalogue for intensive biodiversity baseline study, Jambi, Central Sumatra

Dir.	Sub-dir	Sub-sub-dir	File Name	Author	Content
RBA	-	-	CATALOG.DOC	A. Gillison*, N. Liswanti*	Primary data catalogue for intensive biodiversity
			RBA-LIST.DOC		List of participants RBA survey
			PLOTSMAP.DOC	A.Gillison*, D. Sheil	A way to Sumatra plots map
			OBJECTIV.DOC		Baseline study for biodiversity assessment in Jambi
	Site	-	JBSSITE.XLS	A. Gillison*, N. Liswanti*	Site physical data
	Soil	-	JBSSOIL.XLS	M van Noordwijk*, K. Hairiah	Soil analytical data (including carbon stock)
		Macrofauna	EARTHSUM.XLS	F.X. Susilo*; S. Hardiwibowo	Earthworm data
			MONOLITH.XLS		Monolith data 11 taxonomic group
			MONOSUMM.XLS		Summary of monolith data 11 taxonomic group
			MONOSPTT.XLS		Total taxa monolith data 11 taxonomic group
			PITFALL.XLS		Pitfall data 11 taxonomic group
			PITFSUMM.XLS		Summary of pitfall data
	Animal	**Insect1-A**	AW-FIG.DOC	A. Watt*; P. Zborowski;	Insect Figure
			AW-REP.DOC	O. Rachmatsyah; C.H. Noor;	Insect preliminary report by AW
			JBSINSTT.XLS	Wardhana; I. Setiawan	Summary of total insect species
					Insect preliminary report by OR
					Complete beetle data from PB
					Summary beetle data (based on trophic level)
		Insect2-B	ANTBIOMA.XLS	D.E. Bignell*; D. Jones;	Biomass of litter and soil ants
			ANTNUMER.XLS	F.X. Susilo	Abundance of litter and soil ants
			ANTSUMMA.XLS		Summary of ant species
			DB-REPO.DOC		Ant preliminary report (second version) by DB
		Birds	JBSBIRD1.XLS	P. Jepson*; Djarwadi	Birds collection data 1
			BIRDSUMM.XLS		Summary of bird species
			JBSBIRD2.XLS		Birds collection data 2
			PJ-REPO.DOC		Bird preliminary report by PJ
			PRE-REPO.DOC		Back From Field Report of Bird Surveys
		Mammals	BIGMMALS.XLS	I. Maryanto*; M.H. Sinaga	Big mammals data
			MAREPO-E.DOC	A. Kartono	Mammals preliminary report (English) by LIPI
			MAREPO-I.DOC		Mammals preliminary report (Indonesia) by LIPI
			SUMBIGMA.XLS		Summary of big mammals species
			SUMMALS.XLS		Summary of small mammals species
		Termite	TERMSUMM.XLS	D. Jones*; D. Bignell;	Summary of termite species
			DJ-REPO.DOC	F.X. Susilo	Termite preliminary report by DJ (hard copy)
	Plants	-	JBSPFA.MDB	Suhardjono*; Afriastini;	Site physical and PFA data in access format
			JBSREPVE.DOC	A. Gillison*; N. Liswanti*;	Vegetation preliminary report by LIPI
			JBSSPPTT.XLS	E. Permana	Vegetation species data
			JBSSUMVE.XLS		Summary of vegetation data
			SITELOC.XLS		Site location and vegetation structural data
	Map	-	LISTMAP.DOC	A. Gillison*, N. Liswanti*	List all of map (vegetation, soil, geology, contour and site location).
	Graphic	-	JAMALL..PPT	A. Gillison*, N. Liswanti*	Digital elevation model of Jambi site
			JAMTERM.PPT		Regression plot of termite abundance & basal area Of woody plant over 7 land use system
			TERMSPMD.PPT		Ratio of plant species richness to plant functional types as indicator of termites species richness.
			TERMABUN.DOC		Termite abundance along a land use gradient
			JBSTERM.PPT		Termite Species Richness along a land use gradient measured against (I) Total Unique Modi; (ii) Total Plant Species; (iii) Spp/Modi
			JBSCSTOCK.PPT		Comparative relationships between above-ground carbon, plant functional type richness, species richness and species / modi ratios along a gradient of land use types, Jambi, Lowland Sumatra

Note: * Principal source of data

ANNEX IV: LIST OF ACRONYMS

ACIAR	**Australian Centre for International Agricultural Research, Australia**
AEZ	**Agro Ecological Zone**
ASB	**Alternatives to Slash and Burn, Project (ICRAF)**
BIOTROP	**SEAMEO Regional Centre for Tropical Biology, Indonesia**
CIFOR	**Center for International Forestry Research, Indonesia**
CSIRO	**Commonwealth Scientific and Industrial Research Organization, Australia**
EPHTA	**Ecoregional Program for the Humid and Sub-humid Tropics of Sub-Saharan Africa**
GCTE	**Global Change in Terrestrial Ecosystems**
GEF	**Global Environmental Facility, USA (World Bank, UNDP and UNEP)**
ICRAF	**International Centre for Research in Agroforestry, Nairobi**
ICSEA	**Southeast Asian Impacts Centre**
IFPRI	**International Food Policy Research Institute, Washington DC, USA**
LIPI	**Indonesian Institute of Science, Indonesia (Lembaga Ilmu Pengetahuan Indonesia)**
NARS	**National Agricultural Research Service/System/s**
SEAMEO	**Southeast Asian Ministries of Education Organisation, Thailand**
UNDP	**United Nations Development Programme, New York, USA**
UNEP	**United Nations Environment Programme, Kenya**
USAID	**Inited States Agency for International Development, Washington DC, USA**

ANNEX V

List of Maps

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