

Supplementary Materials

Table S1: List of tree species surveyed in Htamanthi Wildlife Sanctuary.

Community Type: Bamboo Forest (BF)				
SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
ANACARDIACEAE				
<i>Mangifera indica</i>	0.024	0.000	0.1000	0.124
<i>Spondias pinnata</i>	0.024	0.004	0.1000	0.129
FABACEAE				
<i>Albizia chinensis</i>	0.024	0.009	0.1000	0.133
LYTHRACEAE				
<i>Duabanga grandiflora</i>	0.049	0.004	0.1000	0.153
MALVACEAE				
<i>Stereospermum colais</i>	0.024	0.003	0.1000	0.127
MELIACEAE				
<i>Dysoxylum acutangulum</i>	0.024	0.000	0.1000	0.124
<i>Agliaia perviridis</i>	0.073	0.000	0.1000	0.173
MYRISTICACEAE				
<i>Knema glauca</i>	0.024	0.000	0.1000	0.124
POACEAE				
<i>Dendrocalamus hamiltonii</i>	0.732	0.980	0.2000	1.912
Total	1.00	1.00	1.00	3.00

Community Type: <i>Diospyros toposia</i> forest (DTF)				
SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
ANACARDIACEAE				
<i>Mangifera indica</i>	0.016	0.023	0.033	0.072
ANNONACEAE				
<i>Polyalthia crassa</i>	0.011	0.000	0.011	0.022
APOCYNACEAE				
<i>Alstonia rostrata</i>	0.011	0.019	0.022	0.051
CALOPHYLLACEAE				
<i>Mesua ferrea</i>	0.095	0.018	0.033	0.146
COMBRETACEAE				
<i>Terminalia citrina</i>	0.005	0.001	0.011	0.017
DILLENIACEAE				
<i>Tetracera sarmentosa</i>	0.005	0.000	0.011	0.016
DIPTEROCARPACEAE				
<i>Dipterocarpus baudii</i>	0.011	0.001	0.011	0.022
<i>Dipterocarpus retusus</i>	0.079	0.070	0.044	0.193
<i>Vatica maingayi</i>	0.047	0.017	0.044	0.108
EBENACEAE				
<i>Diospyros toposia</i>	0.147	0.049	0.055	0.252
EUPHOBIAACEAE				
<i>Balakata baccata</i>	0.011	0.004	0.011	0.025

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Chrozophora plicata</i>	0.005	0.000	0.011	0.016
<i>Triadica cochinchinensis</i>	0.011	0.009	0.011	0.031
<i>Croton sp. 23</i>	0.005	0.000	0.011	0.016
FABACEAE				
<i>Albizia chinensis</i>	0.005	0.007	0.011	0.024
<i>Saraca indica</i>	0.026	0.003	0.044	0.073
<i>Saraca sp.</i>	0.005	0.000	0.011	0.016
FAGACEAE				
<i>Castanopsis polystachyus</i>	0.032	0.014	0.022	0.068
<i>Castanopsis sp.2</i>	0.005	0.000	0.011	0.016
<i>Castanopsis tribuloides</i>	0.026	0.027	0.033	0.086
<i>Lithocarpus dealbatus</i>	0.026	0.017	0.022	0.066
<i>Quercus glauca</i>	0.005	0.001	0.011	0.017
<i>Quercus semiserrata</i>	0.016	0.001	0.011	0.028
IXONANTHACEAE				
<i>Ixonanthes chinensis</i>	0.032	0.027	0.022	0.080
LAMIACEAE				
<i>Tectona grandis</i>	0.047	0.107	0.022	0.177
<i>Vitex sp. 2</i>	0.005	0.000	0.011	0.016
LAURACEA				
<i>Nothaphoebe condensa</i>	0.011	0.002	0.022	0.035
<i>Actinodaphne bourdilonii</i>	0.005	0.000	0.011	0.016
<i>Actinodaphne sp.2</i>	0.005	0.001	0.011	0.017
<i>Actinodaphne sp.3</i>	0.005	0.001	0.011	0.017
LOGANIACEAE				
<i>Strychnos wallichiana</i>	0.011	0.001	0.011	0.022
MAGNOLIACEAE				
<i>Magnolia sp.3</i>	0.011	0.005	0.011	0.027
MALVACEAE				
<i>Hibiscus macrophyllus</i>	0.011	0.002	0.022	0.035
<i>Pterospermum javanicum</i>	0.005	0.016	0.011	0.032
MELIACEAE				
<i>Cedrela sp.</i>	0.005	0.008	0.011	0.024
<i>Aglaia perviridis</i>	0.011	0.007	0.022	0.039
<i>Chisocheton cumingianus</i>	0.011	0.005	0.022	0.038
MYRISTICACEAE				
<i>Horsfieldia glabra</i>	0.011	0.003	0.011	0.025
<i>Knema glauca</i>	0.005	0.000	0.011	0.016
MYRTACEAE				
<i>Syzygium sp. 1</i>	0.011	0.008	0.011	0.030
<i>Syzygium sp. 4</i>	0.005	0.002	0.011	0.018
<i>Syzygium sp. 5</i>	0.011	0.004	0.011	0.025
OLACACEAE				
<i>Anacolosa sp. 2</i>	0.011	0.003	0.022	0.035
PHYLLANTHACEAE				

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Baccaurea ramiflora</i>	0.021	0.003	0.022	0.046
<i>Phyllanthus emblica</i>	0.011	0.003	0.022	0.036
<i>Antidesma</i> sp. 31	0.005	0.000	0.011	0.016
<i>Aporosa roxburghii</i>	0.032	0.003	0.033	0.067
<i>Aporosa</i> sp. 63	0.005	0.000	0.011	0.016
POACEAE				
<i>Dendrocalamus hamiltonii</i>	0.047	0.498	0.033	0.578
POLYGALACEAE				
<i>Xanthophyllum flavescens</i>	0.005	0.002	0.011	0.018
ROSACEAE				
<i>Eribotrya</i> sp.	0.011	0.002	0.011	0.023
RUBIACEAE				
<i>Wendlandia</i> sp. 1	0.011	0.001	0.022	0.034
RUTACEAE				
<i>Aegle marmelos</i>	0.005	0.000	0.011	0.017
SALICACEAE				
<i>Flacourtia inermis</i>	0.011	0.004	0.011	0.025
SYMPLOCACEAE				
<i>Symplocos</i> sp.1	0.005	0.001	0.011	0.017
Total	1.00	1.00	1.00	3.00

Community Type: *Nothaphoebe condensata* forest (NCF)

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
ACHARIACEAE				
<i>Hydnocarpus kurzii</i>	0.046	0.009	0.025	0.080
ANACARDIACEAE				
<i>Buchanania arborescens</i>	0.005	0.000	0.004	0.009
<i>Mangifera indica</i>	0.017	0.052	0.021	0.090
<i>Holigarna helferi</i>	0.009	0.004	0.017	0.030
ANNONACEAE				
<i>Polyalthia simiarum</i>	0.005	0.000	0.008	0.013
<i>Polyalthia</i> sp.1	0.002	0.000	0.004	0.006
<i>Polyalthia</i> sp.2	0.003	0.000	0.004	0.008
APOCYNACEAE				
<i>Alstonia rostrata</i>	0.003	0.000	0.008	0.012
<i>Alstonia scholaris</i>	0.002	0.000	0.004	0.006
ARALIACEAE				
<i>Heteropanax fragrans</i>	0.002	0.000	0.004	0.006
ARECACEAE				
<i>Caryota</i> sp.	0.003	0.001	0.004	0.008
<i>Livistona jenkinsiana</i>	0.029	0.021	0.030	0.080
BURSERACEAE				
<i>Canarium</i> sp.1	0.028	0.010	0.025	0.063
<i>Canarium denticulatum</i>	0.003	0.005	0.004	0.012

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
CALOPHYLLACEAE				
<i>Mesua ferrea</i>	0.055	0.014	0.038	0.107
CLUSIACEAE				
<i>Garcinia cowa</i>	0.018	0.003	0.008	0.030
<i>Garcinia elliptica</i>	0.011	0.002	0.021	0.034
<i>Garcinia xanthochymus</i>	0.018	0.002	0.017	0.037
COMBRETACEAE				
<i>Terminalia bellerica</i>	0.002	0.001	0.004	0.006
<i>Terminalia chebula</i>	0.005	0.005	0.008	0.018
<i>Terminalia sp.2</i>	0.003	0.001	0.004	0.009
DILLENIACEAE				
<i>Dillenia pentagyna</i>	0.005	0.005	0.013	0.022
DIPTERCARPACEAE				
<i>Dipterocarpus retusus</i>	0.005	0.002	0.013	0.019
<i>Vatica maingayi</i>	0.054	0.047	0.008	0.109
EBENACEAE				
<i>Diospyros toposia</i>	0.046	0.013	0.030	0.089
EBENACEAE				
<i>Mallotus paniculatus</i>	0.005	0.000	0.008	0.013
<i>Mallotus philippinensis</i>	0.002	0.000	0.004	0.006
FABACEAE				
<i>Saraca indica</i>	0.003	0.000	0.008	0.012
<i>Castanopsis indica</i>	0.006	0.002	0.008	0.017
<i>Castanopsis polystachyus</i>	0.003	0.000	0.008	0.012
<i>Castanopsis tribuloides</i>	0.006	0.002	0.013	0.021
<i>Lithocarpus dealbatus</i>	0.011	0.017	0.013	0.040
<i>Lithocarpus fenestrata</i>	0.005	0.002	0.008	0.015
<i>Lithocarpus sp.1</i>	0.002	0.001	0.004	0.007
<i>Quercus glauca</i>	0.006	0.003	0.004	0.013
<i>Quercus semiserrata</i>	0.009	0.004	0.008	0.022
LAMIACEAE				
<i>Vitex sp. 1</i>	0.002	0.000	0.030	0.031
LAURACEA				
<i>Nothaphoebe condensa</i>	0.206	0.039	0.038	0.282
<i>Phoebe sp.1</i>	0.002	0.000	0.004	0.006
<i>Actinodaphne bourdilonii</i>	0.005	0.000	0.013	0.017
<i>Actinodaphne sp.3</i>	0.002	0.000	0.004	0.006
<i>Cinnamomum nitidum</i>	0.002	0.000	0.004	0.006
<i>Litsea sp.</i>	0.002	0.002	0.004	0.008
LYTHRACEAE				
<i>Duabanga grandiflora</i>	0.005	0.001	0.008	0.014
MAGNOLIACEAE				
<i>Magnolia macrophylla</i>	0.002	0.000	0.004	0.006
<i>Magnolia praecalva</i>	0.011	0.001	0.013	0.024
<i>Magnolia sp.1</i>	0.003	0.001	0.004	0.008

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Magnolia sp.2</i>	0.005	0.005	0.008	0.018
<i>Magnolia sp.3</i>	0.002	0.010	0.004	0.015
MALVACEAE				
<i>Bombax insigne</i>	0.002	0.013	0.004	0.019
<i>Pterospermum aceroides</i>	0.002	0.000	0.004	0.006
<i>Pterospermum javanicum</i>	0.002	0.002	0.004	0.008
<i>Pterospermum semisagittatum</i>	0.002	0.001	0.004	0.007
<i>Stereospermum colais</i>	0.002	0.001	0.004	0.007
MELIACEAE				
<i>Dysoxylum acutangulum</i>	0.006	0.004	0.013	0.023
<i>Dysoxylum excelsum</i>	0.002	0.000	0.004	0.006
<i>Aglaia perviridis</i>	0.008	0.001	0.017	0.026
<i>Chisocheton cumingianus</i>	0.014	0.002	0.021	0.037
<i>Chisocheton cumingianus subsp. balansae</i>	0.003	0.001	0.004	0.009
MORACEAE				
<i>Antiaris toxicaria</i>	0.002	0.000	0.004	0.006
<i>Artocarpus lacucha</i>	0.003	0.005	0.008	0.016
<i>Ficus sp. 1</i>	0.002	0.001	0.004	0.006
<i>Ficus sp. 6</i>	0.002	0.001	0.004	0.006
MYRISTICACEAE				
<i>Knema furfuraceae</i>	0.002	0.000	0.004	0.006
<i>Knema glauca</i>	0.029	0.003	0.034	0.066
<i>Knema globularia</i>	0.011	0.003	0.013	0.026
<i>Knema linifolia</i>	0.003	0.001	0.008	0.012
MYRTACEAE				
<i>Syzygium diospyrifolium</i>	0.003	0.000	0.004	0.008
<i>Syzygium megacarpum</i>	0.002	0.001	0.004	0.007
<i>Syzygium sp. 1</i>	0.011	0.006	0.013	0.029
<i>Syzygium sp. 10</i>	0.002	0.000	0.004	0.006
<i>Syzygium sp. 4</i>	0.006	0.001	0.008	0.016
<i>Syzygium sp. 8</i>	0.002	0.003	0.004	0.008
OLACACEAE				
<i>Anacolosa sp. 1</i>	0.006	0.001	0.008	0.016
<i>Chionanthus ramiflorus</i>	0.002	0.000	0.004	0.006
PANDACEAE				
<i>Galearia filiformis</i>	0.006	0.000	0.013	0.019
PHYLLANTHACEAE				
<i>Baccaurea ramiflora</i>	0.008	0.001	0.017	0.025
<i>Aporosa roxburghii</i>	0.023	0.002	0.021	0.046
POACEAE				
<i>Dendrocalamus longispathus</i>	0.040	0.527	0.021	0.588
<i>Pseudostachyum polymorphum</i>	0.020	0.093	0.004	0.117
POLYGALACEAE				
<i>Xanthophyllum flavescens</i>	0.025	0.005	0.013	0.043

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
RHIZOPHORACEAE				
<i>Carallia brachiata</i>	0.005	0.000	0.008	0.013
ROSACEAE				
<i>Eribotrya bengalensis</i>	0.002	0.001	0.004	0.007
<i>Eribotrya sp.</i>	0.002	0.001	0.004	0.006
RUBIACEAE				
<i>Psydrax sp.</i>	0.003	0.001	0.008	0.012
<i>Wendlandia sp. 1</i>	0.009	0.002	0.004	0.015
RUTACEAE				
<i>Acronychia sp.</i>	0.003	0.001	0.004	0.008
<i>Glycosmis sp. 1</i>	0.002	0.000	0.004	0.006
SALICACEAE				
<i>Casearia sp.</i>	0.003	0.000	0.004	0.008
<i>Flacourtia inermis</i>	0.003	0.000	0.008	0.012
SAPINDACEAE				
<i>Xerospermum noronhianum</i>	0.028	0.021	0.021	0.069
SYMPLOCACEAE				
<i>Symplocos recemosa</i>	0.008	0.000	0.013	0.021
<i>Symplocos sp.1</i>	0.006	0.003	0.013	0.021
<i>Symplocos sp.2</i>	0.002	0.000	0.004	0.006
VITACEAE				
<i>Leea macrophylla</i>	0.002	0.000	0.004	0.006
UNIDENTIFIED	0.003	0.000	0.038	0.042
Total	1.00	1.00	1.00	3.00

Community Type: *Quercus glauca* forest (QGF)

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
ACHARIACEAE				
<i>Hydnocarpus kurzii</i>	0.024	0.012	0.034	0.070
ANACARDIACEAE				
<i>Gluta sp.</i>	0.006	0.009	0.015	0.030
<i>Mangifera indica</i>	0.001	0.001	0.005	0.007
<i>Holigarna helferi</i>	0.007	0.028	0.020	0.055
ANNONACEAE				
<i>Goniothalamus sp. 1</i>	0.001	0.000	0.005	0.006
<i>Polyalthia crassa</i>	0.009	0.005	0.020	0.034
<i>Polyalthia hookeriana</i>	0.001	0.001	0.005	0.007
<i>Polyalthia sp.1</i>	0.039	0.038	0.015	0.091
APOCYNACEAE				
<i>Alstonia rostrata</i>	0.012	0.022	0.015	0.049
<i>Holarrhena pubescens</i>	0.003	0.002	0.010	0.015
BURSERACEAE				

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Canarium sp.1</i>	0.001	0.005	0.005	0.011
CALOPHYLLACEAE				
<i>Mesua ferrea</i>	0.121	0.064	0.054	0.239
CLUSIACEAE				
<i>Garcinia pedunculata</i>	0.024	0.009	0.039	0.072
<i>Garcinia xanthochymus</i>	0.006	0.002	0.010	0.017
DILLENIACEAE				
<i>Dillenia pentagyna</i>	0.006	0.009	0.010	0.025
DIPTERCARPACEAE				
<i>Dipterocarpus kerrii</i>	0.004	0.041	0.005	0.050
<i>Dipterocarpus retusus</i>	0.051	0.171	0.029	0.252
<i>Vatica maingayi</i>	0.060	0.093	0.039	0.192
EBENACEAE				
<i>Diospyros toposia</i>	0.085	0.044	0.054	0.183
EUPHORBIACEAE				
<i>Macaranga denticulata</i>	0.004	0.000	0.010	0.015
FABACEAE				
<i>Cynometra sp.</i>	0.003	0.004	0.010	0.016
<i>Saraca indica</i>	0.007	0.001	0.010	0.019
<i>Saraca sp.</i>	0.001	0.001	0.005	0.007
<i>Xylia xylocarpa</i>	0.001	0.001	0.005	0.007
<i>Castanopsis tribuloides</i>	0.004	0.004	0.010	0.018
<i>Lithocarpus elegans</i>	0.003	0.001	0.005	0.008
<i>Lithocarpus fenestrata</i>	0.004	0.003	0.010	0.017
<i>Quercus glauca</i>	0.174	0.086	0.049	0.309
IXONANTHACEAE				
<i>Ixonanthes chinensis</i>	0.004	0.013	0.015	0.032
LAURACEAE				
<i>Alseodaphne nigrescens</i>	0.003	0.005	0.010	0.017
<i>Endiandra sp.</i>	0.001	0.005	0.005	0.011
<i>Neolitsea zeylanica</i>	0.003	0.003	0.005	0.011
LOGANIACEAE				
<i>Strychnos nux-blanda</i>	0.001	0.001	0.005	0.007
LYTHRACEAE				
<i>Duabanga grandiflora</i>	0.045	0.010	0.039	0.094
<i>Lagerstroemia sp.</i>	0.001	0.000	0.005	0.007
MAGNOLIACEAE				
<i>Magnolia macrophylla</i>	0.001	0.000	0.005	0.007
<i>Magnolia sp.1</i>	0.013	0.024	0.010	0.047
<i>Magnolia sp.3</i>	0.003	0.003	0.005	0.011
MALVACEAE				
<i>Pterospermum javanicum</i>	0.019	0.031	0.020	0.070

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Sterculia macrophylla</i>	0.004	0.002	0.010	0.016
<i>Stereospermum colais</i>	0.001	0.004	0.005	0.010
MELIACEAE				
<i>Dysoxylum acutangulum</i>	0.004	0.002	0.010	0.017
<i>Chisocheton cumingianus</i>	0.003	0.018	0.005	0.026
<i>Chisocheton cumingianus subsp. balansae</i>	0.001	0.004	0.005	0.010
MORACEAE				
<i>Ficus sp.2</i>	0.003	0.001	0.005	0.009
MYRISTICACEAE				
<i>Horsfieldia glabra</i>	0.001	0.001	0.005	0.007
<i>Knema glauca</i>	0.052	0.010	0.059	0.121
MYRTACEAE				
<i>Syzygium sp. 1</i>	0.022	0.018	0.044	0.085
<i>Syzygium sp. 2</i>	0.004	0.001	0.010	0.016
<i>Syzygium sp. 4</i>	0.003	0.001	0.005	0.009
OLACACEAE				
<i>Anacolosa sp. 2</i>	0.006	0.003	0.010	0.018
PANDACEAE				
<i>Galearia filiformis</i>	0.003	0.000	0.005	0.008
PHYLLANTHACEAE				
<i>Baccaurea ramiflora</i>	0.015	0.004	0.034	0.054
<i>Aporosa roxburghii</i>	0.013	0.004	0.025	0.042
PITTOSPORANCEAE				
<i>Pittosporum sp.</i>	0.004	0.003	0.015	0.022
POACEAE				
<i>Dendrocalamus hamiltonii</i>	0.001	0.085	0.005	0.092
POLYGALACEAE				
<i>Xanthophyllum flavescens</i>	0.016	0.011	0.025	0.052
ROSACEAE				
<i>Eriobotrya bengalensis</i>	0.003	0.001	0.005	0.009
RUTACEAE				
<i>Aegle marmelos</i>	0.004	0.003	0.010	0.018
<i>Atalantia sp.</i>	0.010	0.007	0.010	0.027
SAPINDACEAE				
<i>Xerospermum noronhianum</i>	0.040	0.058	0.049	0.148
ULMACEAE				
<i>Gironniera subaequalis</i>	0.001	0.000	0.005	0.007
Unidentified	0.013	0.008	0.020	0.042
Total	1.00	1.00	1.00	3.00

Community Type: *Vatica maingayi* forest (VMF)

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
ACHARIACEAE				
<i>Hydnocarpus kurzii</i>	0.043	0.022	0.028	0.093

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Hydnocarpus macrocarpa</i>	0.010	0.005	0.010	0.025
<i>Hydnocarpus sp.</i>	0.000	0.001	0.001	0.003
ANACARDIACEAE				
<i>Buchanania arborescens</i>	0.003	0.001	0.005	0.008
<i>Gluta sp.</i>	0.001	0.000	0.002	0.004
<i>Mangifera indica</i>	0.005	0.007	0.005	0.017
<i>Mangifera sp.</i>	0.001	0.000	0.002	0.003
<i>Spondias pinnata</i>	0.000	0.001	0.001	0.003
<i>Holigarna helferi</i>	0.016	0.022	0.019	0.058
ANNONACEAE				
<i>Goniothalamus sp. 2</i>	0.000	0.001	0.001	0.002
<i>Polyalthia crassa</i>	0.004	0.001	0.010	0.015
<i>Polyalthia hookeriana</i>	0.004	0.009	0.007	0.020
<i>Polyalthia simiarum</i>	0.009	0.002	0.010	0.021
<i>Polyalthia sp.1</i>	0.042	0.064	0.014	0.120
<i>Polyalthia sp.2</i>	0.003	0.000	0.001	0.004
APOCYNACEAE				
<i>Alstonia rostrata</i>	0.004	0.003	0.010	0.017
<i>Alstonia scholaris</i>	0.001	0.000	0.002	0.004
ARALIACEAE				
<i>Heteropanax fragrans</i>	0.000	0.000	0.001	0.002
<i>Macropanax dispermus</i>	0.001	0.000	0.001	0.003
<i>Trevesia palmata</i>	0.001	0.000	0.001	0.002
ARECACEAE				
<i>Areca triandra</i>	0.002	0.000	0.002	0.005
<i>Livistona jenkinsiana</i>	0.019	0.038	0.018	0.075
BURSERACEAE				
<i>Canarium sp.1</i>	0.007	0.004	0.011	0.022
<i>Canarium denticulatum</i>	0.000	0.000	0.001	0.002
CALOPHYLLACEAE				
<i>Mesua ferrea</i>	0.102	0.065	0.041	0.208
CLUSIACEAE				
<i>Garcinia cowa</i>	0.032	0.008	0.028	0.067
<i>Garcinia elliptica</i>	0.005	0.001	0.007	0.013
<i>Garcinia pedunculata</i>	0.013	0.006	0.013	0.031
<i>Garcinia xanthochymus</i>	0.014	0.004	0.017	0.035
COMBRETACEAE				
<i>Terminalia chebula</i>	0.002	0.001	0.006	0.009
<i>Terminalia citrina</i>	0.001	0.008	0.001	0.010
<i>Terminalia sp.2</i>	0.000	0.001	0.001	0.003
CRYPTERONIACEAE				
<i>Crypteronia paniculata</i>	0.006	0.024	0.008	0.039
<i>Cyatheaaceae</i>				
<i>Cyathea sp.</i>	0.001	0.000	0.001	0.003
DILLENIACEAE				

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Dillenia pentagyna</i>	0.005	0.025	0.007	0.037
DIPTERCARPACEAE				
<i>Dipterocarpus baudii</i>	0.002	0.001	0.002	0.005
<i>Dipterocarpus retusus</i>	0.014	0.015	0.013	0.042
<i>Hopea oblongifolia</i>	0.000	0.000	0.001	0.002
<i>Vatica maingayi</i>	0.115	0.202	0.042	0.359
EBENACEAE				
<i>Diospyros apliculata</i>	0.000	0.000	0.001	0.002
<i>Diospyros sp. 2</i>	0.008	0.005	0.012	0.025
<i>Diospyros sp.1</i>	0.001	0.001	0.004	0.006
<i>Diospyros toposia</i>	0.029	0.017	0.028	0.073
ELAEOCARPACEAE				
<i>Elaeocarpus sp.</i>	0.000	0.000	0.001	0.002
<i>Sloanea sigun</i>	0.000	0.000	0.001	0.002
ERICACEAE				
<i>Lyonia sp.</i>	0.000	0.000	0.001	0.002
EUPHOBIAEAE				
<i>Balakata baccata</i>	0.001	0.003	0.002	0.006
<i>Chrozophora plicata</i>	0.002	0.000	0.005	0.008
<i>Croton sp. 23</i>	0.000	0.000	0.001	0.002
<i>Croton sp.1</i>	0.000	0.000	0.001	0.002
FABACEAE				
<i>Albizia odoratissima</i>	0.000	0.000	0.001	0.002
<i>Castanospermum australe</i>	0.000	0.000	0.001	0.002
<i>Cynometra sp.</i>	0.015	0.028	0.017	0.060
<i>Saraca indica</i>	0.007	0.001	0.007	0.015
FAGACEAE				
<i>Castanopsis indica</i>	0.004	0.001	0.006	0.010
<i>Castanopsis polystachyus</i>	0.009	0.011	0.012	0.032
<i>Castanopsis sp.1</i>	0.001	0.001	0.002	0.004
<i>Castanopsis tribuloides</i>	0.002	0.003	0.004	0.009
<i>Lithocarpus dealbatus</i>	0.000	0.000	0.001	0.002
<i>Lithocarpus elegans</i>	0.000	0.000	0.001	0.002
<i>Lithocarpus fenestrata</i>	0.003	0.002	0.007	0.012
<i>Lithocarpus sp.1</i>	0.002	0.000	0.001	0.004
<i>Quercus helferiana</i>	0.001	0.000	0.001	0.003
<i>Quercus semiserrata</i>	0.004	0.001	0.005	0.009
GIRONNIERA				
<i>Gironniera subaequalis</i>	0.004	0.011	0.007	0.022
IXONANTHACEAE				
<i>Ixonanthes chinensis</i>	0.009	0.033	0.011	0.053
LAMIACEAE				
<i>Callicarpa tomentosa</i>	0.000	0.001	0.001	0.003
LAURACEA				
<i>Beilschmiedia sp. 1</i>	0.000	0.001	0.001	0.003

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Beilschmiedia</i> sp. 2	0.000	0.000	0.001	0.002
<i>Nothaphoebe condensa</i>	0.086	0.040	0.030	0.156
<i>Phoebe lanceolata</i>	0.003	0.003	0.006	0.012
<i>Phoebe</i> sp. 4	0.000	0.000	0.001	0.002
<i>Phoebe</i> sp.1	0.002	0.002	0.005	0.008
<i>Phoebe</i> sp. 33	0.000	0.000	0.001	0.002
<i>Actinodaphne bourdilonii</i>	0.008	0.002	0.011	0.021
<i>Actinodaphne</i> sp.1	0.001	0.000	0.004	0.006
<i>Actinodaphne</i> sp.3	0.008	0.003	0.012	0.023
<i>Actinodaphne</i> sp.4	0.001	0.000	0.001	0.002
<i>Actinodaphne</i> sp.5	0.001	0.000	0.002	0.004
<i>Alseodaphne nigrescens</i>	0.002	0.000	0.004	0.006
<i>Cinnamomum nitidum</i>	0.002	0.000	0.005	0.007
<i>Cinnamomum</i> sp.	0.001	0.002	0.002	0.006
<i>Endiandra</i> sp.	0.008	0.004	0.005	0.016
<i>Litsea</i> sp.	0.001	0.000	0.002	0.003
LECYTHIDACEAE				
<i>Barringtonia macrocarpa</i>	0.000	0.000	0.001	0.002
<i>Barringtonia macrostachya</i>	0.001	0.000	0.002	0.004
LOGANIACEAE				
<i>Strychnos potatorum</i>	0.000	0.001	0.001	0.002
MAGNOLIACEAE				
<i>Magnolia praecalva</i>	0.005	0.001	0.006	0.012
<i>Magnolia</i> sp.1	0.005	0.004	0.007	0.016
<i>Magnolia</i> sp.2	0.001	0.012	0.002	0.016
<i>Magnolia</i> sp.3	0.000	0.000	0.001	0.002
MALVACEAE				
<i>Pterospermum aceroides</i>	0.003	0.006	0.004	0.013
<i>Pterospermum diversifolium</i>	0.007	0.012	0.010	0.029
<i>Pterospermum javanicum</i>	0.005	0.008	0.008	0.021
<i>Pterygota alata</i>	0.001	0.017	0.004	0.022
<i>Sterculia macrophylla</i>	0.004	0.005	0.010	0.019
<i>Stereospermum colais</i>	0.000	0.000	0.001	0.002
<i>Cedrela</i> sp.	0.000	0.000	0.001	0.002
<i>Dysoxylum acutangulum</i>	0.001	0.001	0.002	0.004
<i>Dysoxylum</i> sp.	0.000	0.000	0.001	0.002
<i>Aglaia perviridis</i>	0.012	0.010	0.018	0.040
<i>Aglaia tomentosa</i>	0.001	0.000	0.002	0.004
<i>Chisocheton cumingianus</i>	0.033	0.025	0.034	0.092
<i>Chisocheton cumingianus</i> subsp. <i>balansae</i>	0.002	0.000	0.006	0.009
MORACEAE				
<i>Antiaris toxicaria</i>	0.002	0.002	0.002	0.006
<i>Ficus</i> sp. 1	0.000	0.000	0.001	0.002
<i>Ficus</i> sp.2	0.001	0.016	0.001	0.018
<i>Ficus</i> sp.3	0.000	0.000	0.001	0.002

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
<i>Ficus sp.9</i>	0.000	0.000	0.001	0.002
MYRISTICACEAE				
<i>Horsfieldia glabra</i>	0.003	0.001	0.006	0.010
<i>Knema erratica</i>	0.000	0.000	0.001	0.002
<i>Knema furfuraceae</i>	0.006	0.001	0.010	0.016
<i>Knema glauca</i>	0.022	0.005	0.024	0.050
<i>Knema globularia</i>	0.019	0.004	0.022	0.045
<i>Knema sp. 1</i>	0.000	0.000	0.001	0.002
MYRTACEAE				
<i>Syzygium diospyrifolium</i>	0.000	0.000	0.001	0.002
<i>Syzygium megacarpum</i>	0.003	0.003	0.004	0.010
<i>Syzygium sp. 1</i>	0.010	0.005	0.017	0.032
<i>Syzygium sp. 10</i>	0.003	0.003	0.007	0.013
<i>Syzygium sp. 2</i>	0.003	0.001	0.002	0.007
<i>Syzygium sp. 3</i>	0.001	0.002	0.004	0.007
<i>Syzygium sp. 4</i>	0.005	0.002	0.006	0.013
<i>Syzygium sp. 5</i>	0.004	0.001	0.006	0.011
<i>Syzygium sp. 9</i>	0.000	0.001	0.001	0.003
OLACACEAE				
<i>Anacolosa sp. 1</i>	0.000	0.000	0.001	0.002
<i>Chionanthus decipiens</i>	0.000	0.000	0.001	0.002
<i>Chionanthus ramiflorus</i>	0.000	0.000	0.001	0.002
PANDACEAE				
<i>Galearia filiformis</i>	0.011	0.001	0.019	0.032
PENTAPHYLACEAE				
<i>Eurya acuminata</i>	0.000	0.000	0.001	0.002
PHYLLANTHACEAE				
<i>Baccaurea ramiflora</i>	0.016	0.003	0.025	0.044
<i>Glochidion sp.</i>	0.001	0.000	0.001	0.002
<i>Glochidion superbum</i>	0.000	0.000	0.001	0.002
<i>Antidesma sp. 31</i>	0.000	0.000	0.001	0.002
<i>Aporosa roxburghii</i>	0.006	0.001	0.008	0.015
<i>Aporosa sp. 63</i>	0.000	0.000	0.001	0.002
PITTOSPORANCEAE				
<i>Pittosporum sp.</i>	0.001	0.000	0.004	0.005
POACEAE				
<i>Dendrocalamus longispathus</i>	0.009	0.015	0.005	0.029
<i>Pseudostachyum polymorphum</i>	0.002	0.076	0.002	0.080
PODOCARPACEAE				
<i>Podocarpus neriifolius</i>	0.001	0.000	0.002	0.003
<i>Podocarpus wallichianus</i>	0.000	0.000	0.001	0.002
POLYGALACEAE				
<i>Xanthophyllum flavescens</i>	0.017	0.007	0.016	0.039
PRIMULACEAE				
<i>Ardisia sp.3</i>	0.000	0.000	0.001	0.002

SCIENTIFIC NAME	RDEN	RDOM	RFREQ	IVI
RHIZOPHORACEAE				
<i>Carallia brachiata</i>	0.002	0.001	0.005	0.008
<i>Carallia sp. 22</i>	0.000	0.001	0.001	0.002
ROSACEAE				
<i>Eriobotrya bengalensis</i>	0.003	0.001	0.005	0.009
RUBIACEAE				
<i>Brachytome sp.</i>	0.001	0.000	0.001	0.002
<i>Gardenia sp.</i>	0.000	0.000	0.001	0.002
<i>Ixora sp.2</i>	0.002	0.001	0.005	0.009
<i>Nauclea orientalis</i>	0.000	0.000	0.001	0.002
<i>Pavetta indica</i>	0.000	0.000	0.001	0.002
<i>Psydrax sp.</i>	0.001	0.001	0.001	0.004
<i>Rennellia sp.2</i>	0.000	0.000	0.001	0.002
<i>Tarennoidea wallichii</i>	0.000	0.000	0.001	0.002
<i>Wendlandia paniculata</i>	0.000	0.000	0.001	0.002
<i>Wendlandia puberula</i>	0.000	0.000	0.001	0.002
RUTACEAE				
<i>Atalantia sp.</i>	0.005	0.001	0.007	0.013
<i>Clausena heptaphylla</i>	0.001	0.000	0.001	0.002
<i>Glycosmis sp. 1</i>	0.001	0.000	0.001	0.003
SALICACEAE				
<i>Flacourtia inermis</i>	0.000	0.000	0.001	0.002
SAPINDACEAE				
<i>Xerospermum noronhianum</i>	0.010	0.012	0.019	0.041
SAPOTACEAE				
<i>Palaquium sp.</i>	0.000	0.000	0.001	0.002
SYMPLOCACEAE				
<i>Symplocos recemosa</i>	0.002	0.001	0.005	0.008
TERNSTROEMIACEAE				
<i>Ternstroemia sp.</i>	0.001	0.002	0.001	0.004
TETRAMELACEAE				
<i>Tetrameles nudiflora</i>	0.000	0.001	0.001	0.003
UNIDENTIFIED	0.003	0.002	0.005	0.009
Total	1.00	1.00	1.00	3.00

Table S2: P values estimated by Kruskal-Wallis test for soil physical properties across soil depths and forest communities. Hd – mean hardness of soil, MC – moisture content, BD – bulk density, OM – organic matter, Sand – content of sand, Silt – content of silt, Clay – content of clay. df – degree of freedom and H – Kruskal-Wallis chi-squared, N = 64, df = 3, p-values at $\alpha = 0.05$.

Physical properties of soil	0 -15 cm depth of soil		15 - 30 cm depth of soil		0 - 30 cm depth of soil (Mean)	
	H	p-value	H	p-value	H	p-value
Hd	3.34	0.342	8.29	<0.05	9.87	<0.05
MC	15.70	<0.05	21.01	<0.001	36.13	<0.001
BD	7.26	0.064	5.57	0.135	10.21	<0.05
OM	2.20	0.532	4.91	0.178	6.27	0.099
Sand	12.04	<0.05	7.64	0.054	17.76	<0.001
Silt	3.82	0.281	3.26	0.354	6.58	0.087
Clay	19.73	<0.001	15.16	<0.05	32.18	<0.001

Table S3: P values estimated by Kruskal-Wallis test for soil chemical properties across soil depths and forest communities. pH – soil pH, TN – Total nitrogen, Ava. P – Available phosphorus, K – Extractable potassium, Ca – Extractable calcium, Na – Extractable sodium, and Mg – Extractable magnesium. df – degree of freedom and H – Kruskal-Wallis chi-squared, N = 64, df = 3, p-values at $\alpha = 0.05$.

Chemical properties of soil	0 -15 cm depth of soil		15 - 30 cm depth of soil		0 - 30 cm depth of soil (Mean)	
	H	p-value	H	p-value	H	p-value
pH	7.25	0.064	2.22	0.527	8.21	0.042
TN	2.12	0.548	0.42	0.936	1.79	0.618
Ava. P	13.43	<0.05	13.48	<0.05	26.52	<0.001
K	6.49	0.090	6.38	0.095	13.04	<0.05
Ca	12.46	<0.05	17.45	<0.001	26.52	<0.001
Na	4.25	0.235	5.43	0.143	9.63	<0.05
Mg	16.71	<0.001	11.29	<0.05	27.37	<0.001

Table S4: Significance of test of the global model with all explanatory variables of topographic factors and soil properties at two layers of soil (0-15 cm depth and 15-30 cm depth) and Monte Carlo permutation test (permutations=4999).

Source of variables	Df	Variance	R ² Adjust	F	Pr > F
Model (0-15 cm)	17	0.224	0.099	1.40	<0.001
Residual (0-15 cm)	48	0.453			
Model (15-30 cm)	17	0.218	0.083	1.35	<0.001
Residual (15-30 cm)	48	0.458			

Table S5: Selection of important variables of topographic factors and soil properties at 0-15 cm depth of soil affecting the composition of tree species and variation of forest communities with forward selection at permutation = 4999. Ca – Extractable calcium, Clay – content of clay, Hd – mean hardness of soil, ELV – Elevation, Sand – content of sand, and Mg – Extractable magnesium.

Selected Variables	Order	R ²	R ²	R ² _{Adjust}	F	Pr	Pr _{adj}
			Cumulation	Cumulation			
Ca	15	0.045	0.045	0.030	3.01	0.0002	0.0034**
Clay	10	0.034	0.079	0.049	2.31	0.0002	0.0034**
Hd	4	0.025	0.104	0.060	1.73	0.0030	0.0450*
ELV	1	0.023	0.126	0.069	1.59	0.0068	0.0952
Sand	8	0.021	0.148	0.077	1.54	0.0126	0.1368
Mg	17	0.019	0.169	0.083	1.38	0.0494	0.5928

***p < 0.001, **p < 0.01, *p < 0.05

Table S6: Selection of important variables of topographic factors and soil properties at 15-30 cm depth of soil affecting the composition of tree species and variation of forest communities with forward selection at permutation = 4999. Hd – mean hardness of soil, Ca – Extractable calcium, ELV – elevation and BD – bulk density.

Selected Variables	Order	R ²	R ²	R ² _{Adjust}	F	Pr	Pr _{adj}
			Cumulation	Cumulation			
Hd	4	0.035	0.035	0.020	2.31	0.0002	0.0034**
Ca	15	0.033	0.068	0.038	2.20	0.0002	0.0034**
ELV	1	0.034	0.101	0.058	2.32	0.0002	0.0034**
BD	6	0.024	0.125	0.067	1.65	0.0058	0.0812

***p < 0.001, **p < 0.01, *p < 0.05