

Rimba Raya Plant Summary

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Plant species diversity in the project area is not doubt extremely high, and many elements of the flora are rare, threatened or protected species. Yet, comprehensive, systematic floristic surveys have not been conducted in either nearby Tanung Puting National Park (TPNP) or the project area. For this reason, there was limited primary data available for direct reference to assemble and evaluate a list of plant species present in the project area. A semi-structured botanical survey was conducted in the project area, however, by a group of researchers from the Agricultural Institute of Bogor (Santosa et al. 2008), which combined limited field identification with translation of local names into latin binomials. These floristic data, which should be treated as preliminary, were in turn supplemented based on (i) likely vegetation types of the project area (see Description of Vegetation Types in a separate document); (ii) species associated with these vegetation types on Kalimantan and considered potentially present in the project area, based on Daemeter's field botanical experience on the island and reference to secondary literature (Ashton 1982; Anderson 1972; Mansur 2002; Ng & Ibrahim 2001); and (iii) reference to plant records from other sources deemed reliable. The resulting list (see attached) is no doubt far from complete, but is a conservative, sound compilation of reliable data upon which to build.

Throughout the exercise, emphasis was placed on woody plants. This overlooks most orchid¹ and carnivorous plant diversity, both of which are likely to be extremely high in the project area given the predominance of peat swamp and kerangas vegetation types. No attempt has been made to indicate species confirmed or potentially present in the different vegetation types of the project area (i.e., peat, kerangas, freshwater swamp, riparian forest, mixed dipterocarp forest), pending field verification of these types and their condition.

To maximize conservation relevance of this partial list, effort was concentrated on evaluating records and data for the Dipterocarpaceae and other plant families (e.g., Sapotaceae) known to predominate the IUCN list of threatened plants in Indonesia, as well as the Government of Indonesia list of protected species.

Among the 180 plant taxa listed (mostly woody plants), 45 are considered threatened by IUCN. Of these, 25 species are Critically Endangered (CR), 14 are Endangered (EN) and six are Vulnerable (VU). CR species are heavily dominated by canopy trees in the genus *Shorea* and to a lesser extent *Dipterocarpus*, both of which are overexploited for timber production throughout their range, and have suffered extensive habitat loss due to conversion to non-forest uses. The medium size canopy tree *Shorea balangeran*, is a common tree in nearby TPNP and is considered among the most highly threatened dipterocarps on Borneo, due to severe over-harvesting throughout its range, where it naturally formed high density stands that made it a target of commercial logging operations in the past. The species is likely present in the project area as well.

¹ For example, it is claimed (<http://www.indonesia-tourism.com/news/2007/02/08/tanjung-puting-national-park-is-one-of-the-natural-wonders-of-the-world/>) that 200 species of orchid are confirmed present in TPNP, but this claim could not be verified with species lists available in published or unpublished 'gray' literature. Orchids are therefore absent from the plant list.

At least 15 species potentially present in the project area are protected by GOI.

These include medium to tall timber tree species restricted to peat swamp and wet kerangas forest, such as *Palaquium leiocarpum* and *Ganua motleyana* in the Sapotaceae, and *Dyera costulata* (jelutung) in the Apocynaceae, as well as the ground dwelling pitcher plant *Nepenthes ampullaria*. Also considered potentially present in limited areas of mixed dipterocarp forest in the project area, especially along flood plains of slow moving rivers, is Bornean Ironwood (*Eusideroxylon zwageri*), as well as the illipe nut tree *Shorea seminis*.

Literature Cited (or referenced in the associated Plant List)

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Ng, T.P. and S. Ibrahim. 2001. Common trees in peat swamp forests of Peninsular Malaysia. Forest Research Institute Malaysia, Kuala Lumpur, Malaysia.

Noerdjito, M. and I. Maryanto. 2007. Jenis-jenis hayati yang dilindungi perundang-undangan Indonesia. LIPI Press, Cibinong, Indonesia.

Santosa, Y., A.P. Kartono and A. Muin. 2008. Pendugaan potensi dan studi keanekaragaman jenis vegetasi di calon lokasi pelepasan-liaran orang utan di Kabupaten Seruyan, Propinsi Kalimantan Tengah. Institute Pertanian Bogor, Bogor, Indonesia.

Genus	Species	Family	IUCN status	IUCN notes	Indon. Law	Notes	Source
Campnosperma	auriculatum	Anacardiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Campnosperma	coriaceum	Anacardiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Gluta	renghas	Anacardiaceae					IPB 2008
Mangifera	havilandii	Anacardiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Mangifera	spp.	Anacardiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Swintonia	glauca	Anacardiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Goniothalamus	spp.	Annonaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Mezzettia	leptopoda	Annonaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Polyalthia	sclerophylla	Annonaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Xylopia	coriifolia	Annonaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Xylopia	malayana	Annonaceae					IPB 2008
Alstonia	spatulata	Apocynaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Alstonia	spp.	Apocynaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Dyera	costulata	Apocynaceae			P	Trees <60	Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Agathis	borneensis	Arauracariaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Canarium	spp.	Burseraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Dacryodes	costata	Burseraceae					IPB 2008
Dacryodes	incurvata	Burseraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Dacryodes	rostrata	Burseraceae					IPB 2008
Santiria	apiculata	Burseraceae					IPB 2008
Santiria	leaevigata	Burseraceae					IPB 2008
Santiria	rubiginosa	Burseraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Gymnostoma	nobile	Casuarinaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Bhesa	paniculata	Celestraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Lophopetalum	multinervium	Celestraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Calophyllum	ferrugineum	Clusiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Calophyllum	pulcherrimum	Clusiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Calophyllum	sclerophyllum	Clusiaceae					IPB 2008
Cratoxylum	arborescens	Clusiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Cratoxylum	glaucum	Clusiaceae					IPB 2008
Garcinia	dioica	Clusiaceae					IPB 2008
Garcinia	dulcis	Clusiaceae					IPB 2008
Garcinia	spp	Clusiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Warmia	excelsa	Dilleniaceae					IPB 2008
Anisoptera	grossivenia	Dipterocarpaceae	EN	A1cd+2cd			Ashton 1982; Paoli, pers obs;
Anisoptera	marginata	Dipterocarpaceae	EN	A1cd+2cd			Ashton 1982; Paoli, pers obs;
Cotylelobium	burckii	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Cotylelobium	lanceolatum	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Cotylelobium	melanoxylon	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Dipterocarpus	acutangulus	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Dipterocarpus	borneensis	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Dipterocarpus	borneensis	Dipterocarpaceae					Ashton 1982; Paoli, pers obs;
Dipterocarpus	coriaceus	Dipterocarpaceae	CR	A1cd+2cd, B1+2c	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	crinitus	Dipterocarpaceae	EN	A1cd+2cd	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	elongatus	Dipterocarpaceae	CR	A1cd+2cd, B1+2c	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	eurhynchus	Dipterocarpaceae	CR	A1cd+2cd, B1+2c	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	gracilis	Dipterocarpaceae	CR	A1cd+2cd	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	humeralis	Dipterocarpaceae	CR		P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	kunstleri	Dipterocarpaceae	CR	A1cd+2cd	P	All Diptero	Ashton 1982; Paoli, pers obs;

Dipterocarpus	spp.	Dipterocarpaceae			P	All Diptero	Ashton 1982; Paoli, pers obs;
Dipterocarpus	sublamellatus	Dipterocarpaceae	EN	A1cd+2cd	P	All Diptero	Ashton 1982; Paoli, pers obs;
Dryobalanops	beccarii	Dipterocarpaceae	EN	A1cd+2cd		Ashton 1982; Paoli, pers obs;	
Dryobalanops	fusca	Dipterocarpaceae	CR	A1cd+2cd, B1+2c, C1, D		Ashton 1982; Paoli, pers obs;	
Dryobalanops	rappa	Dipterocarpaceae	CR	A1cd+2cd		Ashton 1982; Paoli, pers obs;	
Hopea	beccariana	Dipterocarpaceae	CR	A1cd+2cd		Ashton 1982; Paoli, pers obs;	
Hopea	dryobalanoides	Dipterocarpaceae	VU	A1cd+2cd		Ashton 1982; Paoli, pers obs;	
Hopea	griffithii	Dipterocarpaceae	CR	A1cd, B1+2c, C1, D		Ashton 1982; Paoli, pers obs;	
Hopea	kerangasensis	Dipterocarpaceae	CR	A1cd, B1+2c		Ashton 1982; Paoli, pers obs;	
Hopea	sangal	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Hopea	semicuneata	Dipterocarpaceae	CR	A1cd, B1+2c, C1, D		Ashton 1982; Paoli, pers obs;	
Shorea	balangeran	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	coriacea	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	exelliptica	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	faguetiana	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	gibbosa	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	guiso	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	induplicata	Dipterocarpaceae	CR	A1cd, B1+2bde, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	johorensis	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	lamellata	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	leprosula	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	longiflora	Dipterocarpaceae	CR	A1cd, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	longisperma	Dipterocarpaceae	CR	A1cd, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	obscura	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	ovalis	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	ovata	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	palembanica	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	parvifolia	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	parvistipulata ssp. alt	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	parvistipulata ssp. pa	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	pauciflora	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	platycarpa	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	quadrinervis	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	retusa	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	ricehetia	Dipterocarpaceae	CR	A1cd, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	rugosa	Dipterocarpaceae	CR	A1cd, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	sagittata	Dipterocarpaceae	CR	A1cd, C2a		Ashton 1982; Paoli, pers obs;	
Shorea	scabrida	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Shorea	seminis	Dipterocarpaceae	CR	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	teysmaniana	Dipterocarpaceae	En			Ashton 1982; Paoli, pers obs;	
Shorea	teysmanniana	Dipterocarpaceae	EN	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	uliginosa	Dipterocarpaceae	VU	A1cd		Ashton 1982; Paoli, pers obs;	
Shorea	uliginosa	Dipterocarpaceae				Ashton 1982; Paoli, pers obs;	
Vatica	rassak	Dipterocarpaceae	VU	A1cd		IPB 2008	
Diospyros	confertifolia	Ebenaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Diospyros	maingayi	Ebenaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Diospyros	pseudomalabarica	Ebenaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Elaeocarpus	spp.	Elaeocarpaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Elaeocarpus	valetonii	Elaeocarpaceae				IPB 2008	
Baccaurea	spp.	Euphorbiaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Baccaurea	sumatrana	Euphorbiaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	
Blumeodendron	tokbrai	Euphorbiaceae				Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;	

Macaranga	caladiifolia	Euphorbiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Macaranga	maingayi	Euphorbiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Neoscortechinia	forbesii	Euphorbiaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Koompassia	malaccensis	Fabaceae	LR/cd	(1994)			IPB 2008
Castanopsis	spp.	Fagaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Lithocarpus	pusillus	Fagaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Quercus	bennettii	Fagaceae					IPB 2008
Stemonurus	secundiflorus	Icacinaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Alseodaphne	insignis	Lauraceae					IPB 2008
Cryptocarya	rugulosa	Lauraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Eusideroxylon	zwageri	Lauraceae			P	No felling to other	
Litsea	turfosa	Lauraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Barringtonia	reticulata	Lecythidaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Durio	carinatus	Malvaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Durio	oxleyanus	Malvaceae					IPB 2008
Durio	spp.	Malvaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Aglaia	rubiginosa	Meliaceae	LR/nt	(1994)			IPB 2008
Chisocheton	amabilis	Meliaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Sandoricum	beccarianum	Meliaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Artocarpus	kemando	Moraceae					IPB 2008
Artocarpus	spp.	Moraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Ficus	variegata	Moraceae					IPB 2008
Parartocarpus	venenosus	Moraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Knema	intermedia	Myristicaceae	LR/nt	(1994)			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Myristica	lowiana	Myristicaceae	LR/nt	(1994)			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Rhodomyrtus	tomentosus	Myrtaceae					Paoli, pers. comm.
Syzygium	cuprea	Myrtaceae					IPB 2008
Syzygium	leucoxylon	Myrtaceae					IPB 2008
Syzygium	spp.	Myrtaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Syzygium	tawaense	Myrtaceae					IPB 2008
Syzygium	zeylanica	Myrtaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Tristaniopsis	grandifolia	Myrtaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Tristaniopsis	maingayi	Myrtaceae					IPB 2008
Tristaniopsis	obovata	Myrtaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Tristaniopsis	whiteana	Myrtaceae					Paoli, pers. comm.
Nepenthes	albomarginata	Nepenthaceae					Mansur 2002
Nepenthes	ampullaria	Nepenthaceae			P	Strictly pro Mansur 2002	
Nepenthes	bicalcarata	Nepenthaceae					Mansur 2002
Nepenthes	gracilis	Nepenthaceae	VU				Mansur 2002
Nepenthes	mirabilis	Nepenthaceae					Mansur 2002
Nepenthes	refflesiana	Nepenthaceae					Mansur 2002
Nepenthes	reinwardtiana	Nepenthaceae					Mansur 2002
Nepenthes	veitchii	Nepenthaceae					Mansur 2002
Coelogyne	pandurata	Orchidaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
spp		Orchidaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Pandanus	spp.	Pandanaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Dacrydium	pectinatum	Podocarpaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Dacrydium	pectinatum	Podocarpaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Nageia	walichiana	Podocarpaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Carallia	brachiata	Rhizophoraceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Combretocarpus	rotundatus	Rhizophoraceae	VU	A1cd	(1994)		IPB 2008
Parastemon	spicatus	Rosaceae					Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;

Hydnophytum	spp.	Rubiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Mussaendopsis	beccariana	Rubiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Myrmecodia	spp.	Rubiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Nephelium	eriopetalum	Sapindaceae			IPB 2008
Nephelium	spp.	Sapindaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Chrysophyllum	spp.	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Ganua	motleyana	Sapotaceae	P	No felling t IPB 2008	Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Ganua	spp.	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Madhuca	motleyana	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Palaquium	cochlearifolium	Sapotaceae	P	Individuals	Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Palaquium	leiocarpum	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Palaquium	pseudorostratum	Sapotaceae			IPB 2008
Palaquium	rostratum	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Palaquium	spp.	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Payena	spp.	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Pouteria	spp.	Sapotaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Scaphium	macropodium	Sterculiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Sterculia	bicolor	Sterculiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Sterculia	rhoidifolia	Sterculiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Sterculia	rubiginosa	Sterculiaceae			IPB 2008
Sterculia	rufa	Sterculiaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Symplocus	celastrifolia	Symplocaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Tetramerista	glabra	Tetrameristacaceae			Paoli, pers comm;
Schima	walichii	Theaceae			IPB 2008
Ternstroemia	grandis	Theaceae	VU	A1cd	Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Gonystylus	bancanus	Thymeleaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;
Gonystylus	spp.	Thymeleaceae			Paoli, pers obs; Anderson 1972; Ng & Ibrahim 2001;