

DAVIS EXPEDITION FUND

REPORT ON EXPEDITION / PROJECT

Expedition/Project Title: **Plant collecting in Puerta Princesa National Park World Heritage Site**

Travel Dates: 28 May 2012 – 12 June 2012

Location: Palawan, the Philippines

Group Members: Mark Hughes

Aims: To collect plants for taxonomic and biographic study

Outcome (not less than 300 words):-

A two-week plant collecting expedition was mounted to the Philippine island of Palawan during late May and early June 2012. The island is of particular interest botanically, having a highly endemic flora and being positioned at the nexus between eastern and western Malesia. A total of 108 herbarium collections was made, each with an associated silica dried sample for DNA extraction (see appendix). The collections concentrated on plant groups of special research interest to the RBGE, namely *Begonia*, Gesneriaceae, Sapotaceae and Zingiberaceae; general collections of other flowering plants were also made. Duplicates of the specimens have been deposited at E and PNH herbaria, and others will be distributed once all have been identified to species and any new taxa described. The collections cover both the limestone flora of the the Puerto Princesa Underground River National Park and the strikingly different low-canopy flora on the adjacent ultramafic rock on Mt. Bloomfield.

At least three new species of *Begonia* were found, some being very narrow endemics such as one peltate-leaved species which has the bulk of its population in only one site at the cave entrance to an underground river. These new species will be named in collaboration with botanists from the Philippine National Herbarium and the University of Manila; it is planned to give them names reflecting local tribes to highlight the value of plant conservation in Palawan. In addition we are collaborating on producing a booklet on the botany of the Puerto Princesa Underground River National Park which can be used locally to promote eco-tourism and conservation.

Introduction



Fig. 1. The position of Palawan at the interface of eastern and western Malesia.

Palawan is a key player in the origin of the Philippine flora, as highlighted by Huxley's modification of Wallace's line which runs between Palawan and the rest of the Philippine archipelago. Palawan lies at the north-eastern margin of the Sunda Shelf (an extension of the Southeast Asian continental shelf) and represents the closest land mass that could have acted as link from the Philippine archipelago to the floras of continental Southeast Asian origin.



Fig. 2. Collection localities visited during the expedition, in the vicinity of the Puerto Princessa Underground River National Park.

The expedition aimed to collect vascular plants (herbarium specimens and DNA material) of the highly endemic limestone flora of Palawan, concentrating on the Puerto Princessa Underground River National Park (PPURNP) World Heritage Site, a region of karst limestone that reaches 1000 m altitude. Silica-dried material from this area will contribute to molecular phylogenetic / biogeographic research in the RBGE core groups *Begonia*, Gesneriaceae, Sapotaceae and Zingiberaceae. Large Asia-wide datasets have been built up for these taxa at RBGE, yet the Philippines and in particular Palawan remain a sampling gap. The collections from this expedition will make a significant impact into our understanding of the biogeography of the Philippines and Malesia.

Itinerary

27 May	Arrive in Manila
28 May	Meet counterparts, fly Manila-Puerto Princessa (Palawan). Drive to Sabang, arrange accommodation, meet guides.
29 May	Beach forest trail from Sabang to Underground River entrance.
30 May	Eastern PPURNP, river inflow trail.
31 May	Mt Bloomfield ascent
1 June	PPURNP lowland trail
2 June	Drive to Puerto Princessa to pick up food and camping supplies
3 June	Begin ascent of Mt. St. Paul. Porters are hungover; M. Hughes carries most of equipment. Porters fail to bring tarpaulin as directed previously, makeshift camp set up at 600 m.
4 June	Approach the summit of Mt. St. Paul, return to previous camp.
5 June	Descend mountain, return to Sabang village by nightfall.
6 June	Specimen processing and packing
7 June	Drive to El Nido in the north of Palawan
8 June	Boat trip round coastal karst formations
9 June	Drive to Puerto Princessa
10 June	Fly to Manila
11 June	Work in Manila herbarium
12 June	Fly to Kuala Lumpur



Fig. 3. The limestone peak of Mt. St. Paul, 1028 m above sea level, viewed from the beach near Sabang village.



Fig. 4. Danilo Tandang at Camp 1, about 600 m on the northern flank of Mt. St. Paul.



Fig. 5. A new species of peltate *Begonia*, growing abundantly at the entrance to the underground river in PPURNP.



Fig. 6. One of at least 3 new species of *Begonia* found growing on limestone rocks at low altitude near the Underground River.



Fig. 7. Mt Bloomfield seen looking west along the beach near Sabang. The ultramafic peak reaches 809 m in altitude.



Fig. 8. Participants of the Mt. Bloomfield ascent. Left to right: Tedy, Carmen Puglisi, Danilo Tandang, Mark Hughes.

Outputs

A total of 108 herbarium collections was made, each with an associated silica dried sample for DNA extraction (see appendix). Duplicates have been deposited at E and PNH, and others will be distributed once all have been identified to species and any new taxa described. The collections cover both the limestone flora and the strikingly different low-canopy flora on adjacent ultramafic rock.

At least three new species of *Begonia* were found, some being very narrow endemics such as the species shown in Figure 5 which has the bulk of its population in only one site at the entrance to the underground river. These new species will be named in collaboration with botanists from PNH and the University of Manila; it is planned to give them names reflecting local tribes to highlight the value of plant conservation in Palawan. In addition we are producing a booklet on the botany of the PPURNP which can be used locally to promote eco-tourism and conservation.

Funding

Davis Expedition Fund	£750
RBGE	£1040

Full accounts and all receipts are lodged at the finance dept. in RBGE.

References

- Hughes, M., Coyle, C. & Rubite, R.R. (2010). A revision of *Begonia* section *Diploclinium* on the Philippine island of Palawan, including five new species. *Edinburgh Journal of Botany*, 67: 123–140.
- Hughes, M., Rubite, R.R., Kono, Y. & Peng, C-I. (2011). *Begonia blancii* (sect. *Diploclinium*), a new species endemic to the Philippine island of Palawan. *Botanical Studies* 52: 203-209.
- Hughes, M. & Coyle, C. (2009). *Begonia* section *Petermannia* on Palawan (Philippines) including two new species. *Edinburgh Journal of Botany*, 66: 205-211.

Collections made during the expedition and deposited at E and PNH

COLL NO.	COLLECTORS	DATE	LOCALITY	FAMILY	GENUS	SPECIES	LATITUDE	LONGITUDE	ALTITUDE (m)
CP300	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Zingiberaceae	Globba	sp.	10.198	118.918	0-100
CP301	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Begoniaceae	Begonia	sp.	10.198	118.918	0-100
CP302	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Gesneriaceae	Cyrtandra	sp.	10.198	118.918	0-100
CP303	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Rubiaceae	Psychotria	sp.	10.198	118.918	0-100
CP304	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Gesneriaceae	Epithema	madulidii	10.198	118.918	0-100
CP305	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Begoniaceae	Begonia	sp.	10.198	118.918	0-100
CP306	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Unknown	Unknown	sp.	10.198	118.918	0-100
CP307	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Taccaceae	Tacca	sp.	10.198	118.918	0-100
CP308	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Costaceae	Costus	sp.	10.198	118.918	0-100
CP309	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Sterculiaceae	Heritiera	sp.	10.198	118.918	0-100
CP310	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Moraceae	Ficus	sp.	10.198	118.918	0-100
CP311	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Vitaceae	Cissus	sp.	10.198	118.918	0-100
CP312	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Acanthaceae	Unknown	sp.	10.198	118.918	0-100
CP313	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Rubiaceae	Ixora	sp.	10.198	118.918	0-100
CP314	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Asclepiadaceae	Unknown	sp.	10.198	118.918	0-100
CP315	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Unknown	Unknown	sp.	10.198	118.918	0-100
CP316	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Annonaceae	Goniothalamus	sp.	10.198	118.918	0-100
CP317	M. Hughes, C. Puglisi, D. Tandang, Julius	29/05/12	Sabang, jungle trail between CPS and underground river	Annonaceae	Unknown	sp.	10.198	118.918	0-100
CP318	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Unknown	Unknown	sp.	10.198	118.918	20
CP319	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Memecylaceae	Memecylon	paniculatum	10.198	118.918	20
CP320	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Rubiaceae	Unknown	sp.	10.198	118.918	20
CP321	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Rubiaceae	Lasianthus	sp.	10.198	118.918	20
CP322	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Rubiaceae	Unknown	sp.	10.198	118.918	20
CP323	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Annonaceae	Unknown	sp.	10.198	118.918	20
CP324	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Begoniaceae	Begonia	sp.	10.198	118.918	20
CP325	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Myristicaceae	Unknown	sp.	10.198	118.918	20
CP326	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Beach trail to CPS	Fabaceae	Unknown	sp.	10.198	118.918	5
CP327	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Rubiaceae	Unknown	sp.	10.198	118.918	20
CP328	M. Hughes, C. Puglisi, R. Rubite, Teddy	30/05/12	Underground river inflow	Gesneriaceae	Cyrtandra	sp.	10.198	118.918	20
CP329	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Isolated limestone block near underground river inflow	Araceae	Amorphophallus	sp.	10.1537	118.869	100
CP330	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Begoniaceae	Begonia	sp.	10.1986	118.883	0-500
CP331	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rubiaceae	Mussaenda	sp.	10.1986	118.883	0-500
CP332	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Goodeniaceae	Unknown	sp.	10.1986	118.883	0-500
CP333	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rubiaceae	Unknown	sp.	10.1986	118.883	0-500
CP334	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Polygalaceae	Unknown	sp.	10.1986	118.883	0-500
CP335	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Sapotaceae	Palaquium	sp.	10.1986	118.883	0-500
CP336	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rutaceae	Unknown	sp.	10.1986	118.883	0-500
CP337	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Combretaceae	Terminalia	sp.	10.1986	118.883	0-500
CP338	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Myrsinaceae	Unknown	sp.	10.1986	118.883	0-500
CP339	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Myrtaceae	Syzygium	sp.	10.1986	118.883	0-500
CP340	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Polygalaceae	Polygala	sp.	10.1986	118.883	0-500
CP341	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rutaceae	Xanthoxylum	sp.	10.1986	118.883	0-500
CP342	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Memecylaceae	Memecylon	sp.	10.1986	118.883	0-500
CP343	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Acanthaceae	Hemigraphis	sp.	10.1986	118.883	0-500
CP344	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Acanthaceae	Hemigraphis	sp.	10.1986	118.883	0-500
CP345	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Unknown	Unknown	sp.	10.1986	118.883	0-500
CP346	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Pittosporaceae	Pittosporum	sp.	10.1986	118.883	0-500
CP347	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rubiaceae	Unknown	sp.	10.1986	118.883	0-500
CP348	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Unknown	Unknown	sp.	10.1986	118.883	0-500
CP349	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Rubiaceae	Psychotria	sp.	10.1986	118.883	0-500
CP350	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Bignoniaceae	Radermachera	sp.	10.1986	118.883	0-500
CP351	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Dilleniaceae	Dillenia	sp.	10.1986	118.883	0-500
CP352	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Nepenthaceae	Nepenthes	sp.	10.1986	118.883	0-500

Collections made during the expedition and deposited at E and PNH

COLL NO.	COLLECTORS	DATE	LOCALITY	FAMILY	GENUS	SPECIES	LATITUDE	LONGITUDE	ALTITUDE (m)
CP353	M. Hughes, C. Puglisi, D. Tandang, Teddy	31/05/12	Mt. Bloomfield	Araceae	Alocasia	sp.	10.1986	118.883	0-500
CP354	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Illiciaceae	Unknown	sp.			100
CP355	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Unknown	Unknown	sp.			100
CP356	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Unknown	Unknown	sp.			100
CP357	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Annonaceae	Unknown	sp.			100
CP358	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Fabaceae	Bauhinia	sp.			100
CP359	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Annonaceae	Unknown	sp.			100
CP360	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Unknown	Unknown	sp.			100
CP361	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Zingiberaceae	Etingera	sp.			100
CP362	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Convolvulaceae	Unknown	sp.			100
CP363	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Rubiaceae	Ixora	sp.			100
CP364	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Acanthaceae	Unknown	sp.			100
CP365	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Araceae	Amorphophallus	sp.			100
CP366	M. Hughes, C. Puglisi, R. Rubite, Teddy	01/06/12	The corridor	Cyperaceae	Unknown	sp.			100
MH1700	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Commelinaceae	Commelina	sp.	10.16	118.91	300-600
MH1701	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Zingiberaceae	Etingera	sp.	10.16	118.91	300-600
MH1702	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Begoniaceae	Begonia	sp.	10.16	118.91	300-600
MH1703	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Apocynaceae	Wrightia	sp.	10.16	118.91	300-600
MH1704	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Begoniaceae	Begonia	sp.	10.16	118.91	300-600
MH1705	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Euphorbiaceae	Antidesma	sp.	10.16	118.91	300-600
MH1706	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Unknown	Unknown	sp.	10.16	118.91	300-600
MH1707	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Rubiaceae	Ixora	sp.	10.16	118.91	300-600
MH1708	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Araceae	Alocasia	sp.	10.16	118.91	300-600
MH1709	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Scrophulariaceae	Unknown	sp.	10.16	118.91	300-600
MH1710	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Orchidaceae	Unknown	sp.	10.16	118.91	300-600
MH1711	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Orchidaceae	Unknown	sp.	10.16	118.91	300-600
MH1712	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Annonaceae	Unknown	sp.	10.16	118.91	300-600
MH1713	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Begoniaceae	Bauhinia	sp.	10.16	118.91	300-600
MH1714	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Gesneriaceae	Epithema	sp.	10.16	118.91	300-600
MH1715	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Orchidaceae	Unknown	sp.	10.16	118.91	300-600
MH1716	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Urticaceae	Pilea	sp.	10.16	118.91	300-600
MH1717	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Gesneriaceae	Epithema	sp.	10.16	118.91	300-600
MH1718	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Apocynaceae	Voacanga	sp.	10.16	118.91	300-600
MH1719	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Araceae	Amorphophallus	sp.	10.16	118.91	300-600
MH1720	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Araceae	Arisaema	sp.	10.16	118.91	300-600
MH1721	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Balsaminaceae	Impatiens	sp.	10.16	118.91	300-600
MH1722	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Euphorbiaceae	Unknown	sp.	10.16	118.91	300-600
MH1723	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Rutaceae	Unknown	sp.	10.16	118.91	300-600
MH1724	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Balsaminaceae	Impatiens	sp.	10.16	118.91	300-600
MH1725	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Rubiaceae	Psychotria	sp.	10.16	118.91	300-600
MH1726	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Begoniaceae	Begonia	sp.	10.16	118.91	300-600
MH1727	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Piperaceae	Piper	sp.	10.16	118.91	300-600
MH1728	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Meliaceae	Aglaia	sp.	10.16	118.91	300-600
MH1729	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Memecylaceae	Memecylon	sp.	10.16	118.91	300-600
MH1730	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Annonaceae	Unknown	sp.	10.16	118.91	300-600
MH1731	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Myrsinaceae	Unknown	sp.	10.16	118.91	300-600
MH1732	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Begoniaceae	Begonia	sp.	10.16	118.91	300-600
MH1733	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Unknown	Unknown	sp.	10.16	118.91	300-600
MH1734	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Leeaceae	Leea	sp.	10.16	118.91	300-600
MH1735	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Meliaceae	Aglaia	sp.	10.16	118.91	300-600
MH1736	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Vitaceae	Tetrastigma	sp.	10.16	118.91	300-600
MH1737	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Acanthaceae	Unknown	sp.	10.16	118.91	300-600
MH1738	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Celastraceae	Unknown	sp.	10.16	118.91	300-600
MH1739	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Cycadaceae	Cycas	sp.	10.16	118.91	300-600
MH1740	M. Hughes, D. Tandang, Teddy	03-05/05/2012	Mt. St. Paul	Theaceae	Unknown	sp.	10.16	118.91	300-600