

DAVIS EXPEDITION FUND

REPORT ON EXPEDITION / PROJECT

Expedition/Project Title: Collecting Sapotaceae in Sarawak, Malaysia.

Travel Dates: 18 Feb – 17 Mar 2017

Location: Sarawak, Malaysia

Group Members: Peter Wilkie

Aims: To make herbarium collections of Sapotaceae and other plants in the little explored Lanjak-Entimau Wildlife Sanctuary, Sarawak, Malaysia.

Outcome (not less than 300 words):-

Collecting Sapotaceae in Sarawak, Malaysia

Background and Scientific rationale

Sarawak is known as a biodiversity hotspot for richness of plant and animal life (Slik et al 2003; 2009). However many areas of the rainforest in Sarawak have yet been explored botanically and many new records are sure to be found.

It is particularly rich in Sapotaceae with 13 Genera and 175 species recorded so far (Wilkie 2011; 2016). This family is economically important as a source of timber and commercial latex. Field work in Sarawak will contribute to delivering monographic and floristic and phylogenetic accounts of Sapotaceae. In addition general collections of plants will also help develop an inventory of plants in the area.

RIMBA Sarawak

Research into the biodiversity of Sarawak's forests has gradually slowed over recent decades. To reverse this situation the State Government launched a new initiative supported by the Sarawak Forestry Corporation (SFC) to help encourage foreign researchers participate in research which would refine the management of Sarawak's forests, especially its biologically rich Totally Protected Areas (TPA's). The Royal Botanic Garden Edinburgh was a founder signatory of this initiative which identified three specific field sites and one tentative area to have intensified research programmes. These include Nanga Segrak and Nanga Bloh in Lanjak-Entimau Wildlife Sanctuary, Nanga Delok in Bantang Ai National Park and Ulu Sebuyau National Park.

The initiative is a long-term project which will develop practical conservation management procedures for bio-rich areas which will be permanently integrated into Sarawak Forestry's long-term conservation management programme.

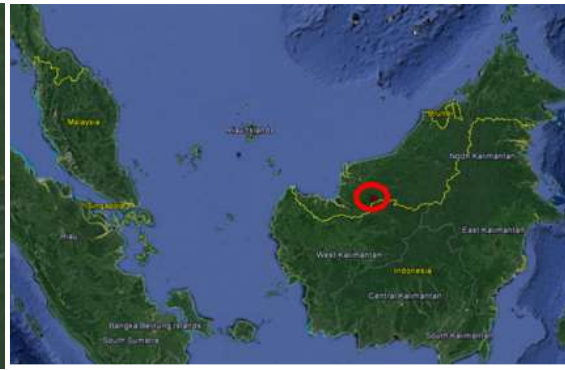
Fieldwork

It was originally planned to visit all four sites of RIMBA Sarawak however difficulties with permissions and logistics meant that we focused on one of the most remote and inaccessible areas, that of Nanga Bloh in Lanjak-Entimau Wildlife Sanctuary.

The team consisted of Roslina Binti Ragai of Sarawak Forestry Corporation, Peter Wilkie of the Royal Botanic Garden Edinburgh and Paul Leong and Michelle Rodda of Singapore Botanic Gardens. This group was supported by additional staff from the RIMBA project and boatmen and guides from the local longhouse (Rumah Panjang Sampai).



RIMBA Sarawak Research Sites



Lanjak-Entimau Wildlife Sanctuary

Fig.1. Research Sites

Table 1: Itinerary

18 February 2017	Fly to Kuala Lumpur (KL), fly to Kuching
19th	Arrive KL, fly to Kuching
20th	Meeting with CEO of Sarawak Forestry Corporation in Kuching, meet counterparts from Singapore Botanic Garden, fly to Sibiu. Meet SFC counterpart. Organise equipment and boat men and guides for field work.
21st	Travel by boat to Song then by canoe to the last longhouse before Lanjak-Entimau Wildlife Sanctuary (Rumah Panjang Sampai). Obtain local permissions needed.
22nd	Travel by boat to Lanjak-Entimau Wildlife Sanctuary, set up camp along Sungai Katibas.
23-25th	Collecting up stream of Forest camp in Nanga Bloh area
26th	Move to field station near the meeting point of Sungai Katibas and Sungai Bloh.
27-6 th March	Collect along Sungai Katibas and Bloh and along forest ridges.
7th	Travel to Sibiu
8th	Return to Kuching to deposit specimens and debrief SFC staff
9th	Sort out collecting notes and images
10-13th	Travel to Singapore and use SING herbarium

14-16th	Travel to Kuala Lumpur and visit KEP herbarium
17th	Fly to Edinburgh
18 th March	Arrive Edinburgh

Methodology

Herbarium specimens were collected in duplicates of at least 4, with the top set left in the Department of Forestry, Sarawak (SAR). A set will also be distributed to The Royal Botanic Garden Edinburgh (E) and Singapore Botanic Garden (SING) with additional material being sent to taxonomic specialists.



Fig. 2. Specimens pressed in alcohol.

Specimens were collected in newspaper and given the remote location then stored in plastic bags containing 50-70% alcohol. These will be subsequently dried by staff of SAR. GPS coordinates, photographs and silica dried material were taken of all plants collected and latex collected from Sapotaceae collections. Living material was collected for some plants (namely *Begonia* and Orchids) to be cultivated by the Department of Forestry in Sarawak.



Collection of Sapotaceae latex

Data collection: *Rhizanthus*

Fig. 3. Data and specimen collection.

Localities

The river systems and forest ridges along the Sungai Katibas and Sungai Bloh were surveyed during the fieldwork. Due to the very wet /flooding conditions the number of days camping was curtailed and access to some river systems was not possible.

Plants Collected

The trip was a great success with 400 collections made by the three botanists on the expedition. Information on the Wilkie collections can be found in appendix 1. All material collected will be shared amongst the three institutes taking part (E, SING, SAR).

It was hoped to collect mainly trees but as few of them were in flower and fruit during our time in the forest a more general plant collecting trip of herbs, shrubs and climbers was also undertaken. Provisional identifications suggest 4 different species of Sapotaceae, 15 of Gesneriaceae (with at least 4 species new to science) and at least 18 species of *Begonia* (several species new to science).

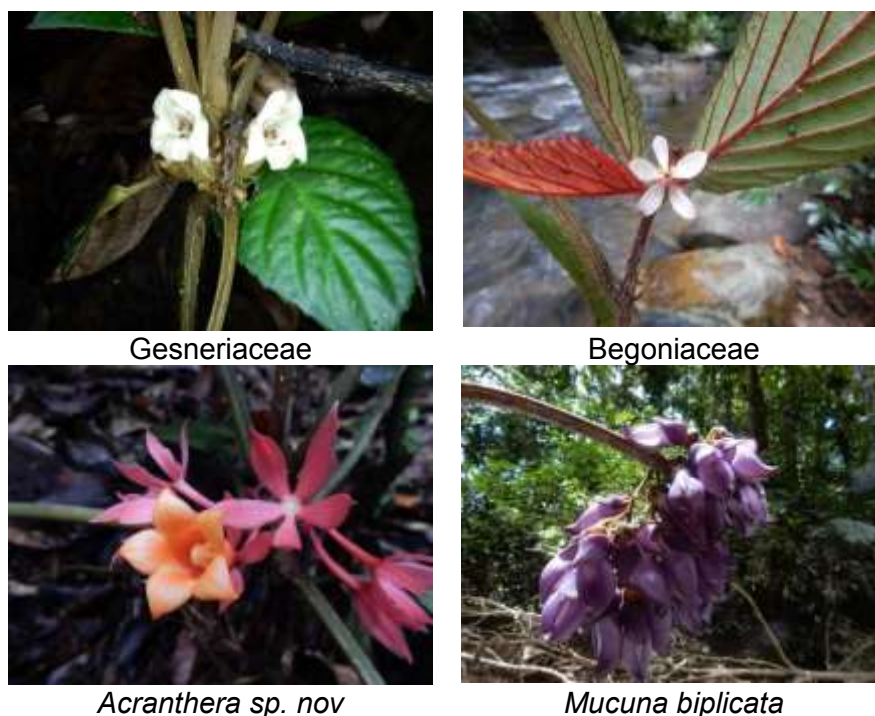


Fig. 4. Some collections made during the expedition.

Acknowledgements

This fieldtrip was made possible with the generous support of the Davis Fund and the Sarawak Forestry Corporation (SFC). Assistance in the field and help with obtaining permits (NPW.907.4.4(jld.14)-88) was provided by staff at the SFC. Special thanks must be given to Roslina Binti Ragai who coordinated the whole expedition and provided valuable assistance throughout.

References

Wilkie, P. (2011) Towards an account of Sapotaceae for Flora Malesiana. *Gardens' Bulletin Singapore* 63(1&2): 145-153

Wilkie, P. (2016) Sapotaceae Resource Centre:
<http://padme.rbge.org.uk/sapotaceae/index.php>

J. W. Ferry Slik, Niels Raes, Shin-Ichiro Aiba, Francis Q. Brearley, Charles H. Cannon, Erik Meijaard, Hidetoshi Nagamasu, Reuben Nilus, Gary Paoli, Axel D. Poulsen, Douglas Sheil, Eizi Suzuki, Johan L. C. H. van Valkenburg, Campbell O. Webb, **Peter Wilkie**, Stephan Wulffraat. (2009). Environmental correlates for Borneo's tropical tree species diversity and compositional patterns. *Diversity and Distributions* 15: 523-532.

Slik JWF, Poulsen AD, Ashton PS, Cannon CH, Eichhorn KAO, Kartawinata K, Lanniari I, Nagamasu H, Nakagawa M, van Nieuwstadt MGL, Payne J, Purwaningsih, Saridan A, Sidiyasa K, Verburg RW, Webb CO, **Wilkie P.** (2003) A floristic analysis of the lowland dipterocarp forests of Borneo. *Journal Of Biogeography* 30 (10): 1517-1531.

Appendix 1: Provisional names of all plants collected on the trip.

Collector	No SFC	Family	Scientific name
Wilkie, P., Leong, P. Rodda, M, Sirukit, D.	SFC07401	Begoniaceae	Begonia
Wilkie, P., Leong, P. Rodda, M, Sirukit, D.	SFC07402	Rubiaceae	Cyanoneuron
Wilkie, P., Leong, P. Rodda, M, Sirukit, D.	SFC07403	Begoniaceae	Begonia
Wilkie, P., Leong, P. Rodda, M, Sirukit, D.	SFC07404	Gesneriaceae	Cyrtandra
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07405	Zingiberaceae	Alpinia
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07406	Gesneriaceae	Cyrtandra
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07407	Meliaceae	Aglaia
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07408	Melastomataceae	
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07409	Sapotaceae	Madhuca
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07410	Sapotaceae	Palaquium
Wilkie, P., Leong, P. Rodda, M, Sirukit, D., Ragai, R., Benier, A., Lawrence, W.	SFC07411	Myrtaceae	Syzygium

Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07412	Apocynaceae	Microstachys
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07413	Rubiaceae	Lasianthus
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07414	Begoniaceae	Begonia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07415	Begoniaceae	Begonia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07416	Araceae	
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07417	Annonaceae	Polyalthia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07418	Phyllanthaceae	Antidesma
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07419	Sapotaceae	Palaquium gutta
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07420	Leguminosae	Archaeodendron
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07421	Rubiaceae	Nauclea
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07422	Annonaceae	Polyalthia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07423	Anacardiaceae	
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07424	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07425	Begoniaceae	Begonia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07426	Apocynaceae	Willughibia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07427	Myrtaceae	Syzygium pygnanthium
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07428	Zingiberaceae	Globba
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07429	Begoniaceae	Begonia

Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07430	Sapotaceae	Payena
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07431	Zingiberaceae	Plagiostachys
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07432	Sapotaceae	Palaquium gutta
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07433	Primulaceae	Ardisia
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07434	Melastomataceae	Medinilla
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07435	Zingiberaceae	Etlingera
Wilkie, P., Ragai, R., Lawrence, W., Bernier, A, Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07436	Gesneriaceae	Codonobea
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07437	Lauraceae	Alseodaphne
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07438	Actinidaceae	Sauraurea
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07439	Euphorbiaceae	
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07440	Leeaceae	Leea
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07441	Moraceae	Ficus
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07442	Rubiaceae	
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07443	Sapotaceae	Palaquium gutta
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07444	Melastomataceae	

Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07445	Gesneriaceae	Cyrtandra
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07446	Gesneriaceae	Cyrtandra
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07447	Gesneriaceae	Cyrtandra
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07448	Gesneriaceae	Cyrtandra
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07449	Begoniaceae	Begonia
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07450	Gesneriaceae	Cyrtandra
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07451	Lauraceae	Actinodaphne
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07452	Meliaceae	Aglaia
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07453	Rubiaceae	
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07454	Gentianaceae	Utania stenophylla (Fagraea)
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07455	Annonaceae	Polyalthia
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07456	Araceae	Ooiisecta
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley ., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07457	Malvaceae	Microcos
Wilkie, P., Lawrence, W., Bernier, A, Louis Stener Wesley .,	SFC07458	Loranthaceae	

Embuas Ak Jenging, Jacky Ak Ngabong.			
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07459	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07460	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07461	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07462	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07463	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07464	Urticaceae	Elatostemma
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07465	Urticaceae	Dendrocnide stimulans
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07466	Fern	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07467	Sapotaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07468	Sapotaceae	Palaquium
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07469	Rubiaceae	Acranthera
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07470	Bignoniaceae	Gardinia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07471	Annonaceae	Gymnacranthera
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07472	Cucurbitaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07473	Verbenaceae	Clareodendron
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07474	Ericaceae	Rhododendron
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07475	Zingiberaceae	Zingiber

Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07476	Rubiaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07477	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07478	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07479	Rubiaceae	<i>Acranthera</i>
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07480	Gesneriaceae	Codonobea
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07481	Melastomataceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07482	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07483	Asclepiadaceae	Hoya obscura
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07484	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07485	Orchidaceae	Appendicula
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07486	Annonaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07487	Rubiaceae	Xanthophytum brookii
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07488	Moraceae	Ficus
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07489	Orchidaceae	Appendicula
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07490	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07491	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07492	Dilleniaceae	Dillenia fruticosa
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07493	Actinidaceae	Saurauria

Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07494	Acanthaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07495	Malvaceae	Sterculia coccinea
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07496	Malvaceae	Microcos
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07497		
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07498	Melastomataceae	Medinilla
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07499	Burseraceae	canarium?
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07500	Orchidaceae	Malixis
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07801	Zingiberaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07802	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07803	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07804	Gesneriaceae	Cyrtandra
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07805	Commelinaceae	Amischotolype
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07806	Commelinaceae	Amischotolype
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07807	Myrtaceae	Syzygium
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07808	Melastomataceae	Medinilla
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07809	Rafflesiaceae	Ryzanthus
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07810	Rubiaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07811	Orchidaceae	Coelogyne

Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07812	Orchidaceae	Bulbophyllum
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07813	Euphorbiaceae	Bhesa/antidesma
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07814	Moraceae	Ficus
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07815	Rubiaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07816	Orchidaceae	Bulbophyllum
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07817	Urticaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07818	Rubiaceae	
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07819	Begoniaceae	Begonia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07820	Zingiberaceae	Etlingera
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07821	Sapotaceae	Palaquium
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07822	Meliaceae	Aglaia
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07823	Zingiberaceae	Etlingera
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07824	Orchidaceae	Appendicula
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07825	Araliaceae	Schefflera
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07826	Fagaceae	Lithocarpus
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07827	Hanguanaceae	Hanguan
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07828	Leguminosae	Saraca
Wilkie, P., Ragai, R.,Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07829	Begoniaceae	Begonia

Wilkie, P., Ragai, R., Lawrence, W., Benier, A., Embuas Ak Jenging, Jacky Ak Ngabong.	SFC07830	Ebenaceae	Diospyros
Wilkie, P., Ragai, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07831	Ericaceae	Rhododendron
Wilkie, P., Ragai, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07832	Begoniaceae	Begonia
Wilkie, P., Ragai, W., Benier, A., Embuas Ak Jenging, Udim Ak Lau.	SFC07833	Melatomataceae	Phylogathis?