## VIREYA VINE

ISSUE # 9 FEBRUARY 1986

AN INTERNATIONAL GROUP OF "VIREYA BUFFS" - PUBLISHED BY THE EDUCATION COMMITTEE OF THE RHODODENDRON SPECIES FOUNDATION

NOTE--NOTE-- This issue of the VIREYA VINE is dedicated to the memory of John Womersley, Botanical Consultant and worker on Vireya Rhododendrons. The Vireya world lost a good friend and worker when John passed on last September. John was a Australian who spent many years working with plants in Papua New Guinea. We are including in this VINE "Part I: Geographical Distribution, of the Census of the Species Rhododendron, Sect. Vireya" that John sent to me (E. White Smith) in August 1985 to use in the VV. We think that this is important work and hope that someone else will take up the job where he left off. (Notice 'Part II and Part III' in the cover letter)

South Africa
Lar Vireya Vine, November 11, 1985

Undoubtedly the greatest problem for Vireya growers is raising the seedlings, and after some very disappointing results we seem to have found the answer to this problem.

the answer to this problem.

I have made some crosses onto several species, using pollen of R.lowii which I collected in Borneo. Using various composts of peat and peat mixed with sand and soil, results were bad except in the case of R. laetum x lowii. We have about 90 strong seedlings from this, several inches high. Germination was usually very good but in some trays every seedling perished. Unfortunately, I did not discover the right medium until after my small supply of the precious R. lowii pollen was exhausted. This was when I decided to try rotten wood. The cross was R. brookeanum var gracile x zoelleri and half of the seed was sown on crushed pine bark as part of the experiment.

The seed parent is an interesting plant, growing a few feet above ground in a camphor tree which has several large branches which emanate from that point. It grows well and has been pruned a little several times. It has produced evenly shaped trusses of pure vermilion flowers unspoiled y a yellow centre. It is self-sterile and has never produced any seed less hand-pollinated with another species. When pollinated with R. lowii pollen from a gorgeous truss of twenty-two large golden-yellow flowers, twice the usual number, we germinated hundreds of seedlings but only nine have survived, and we watch over them anxiously we imagine all kinds of wonderful flowers which might reward our efforts.

However, to return to our experiment, germination on both media was excellent, but since then the crushed bark has proved to be incomparably superior. On the rotten wood the seedlings have made hardly any growth and are a pale color. On past experience of weak seedlings I expect to lose a very high percentage of these.

On the crushed bark they are growing fast and have a healthy green color. We are delighted with them and expect a very high percentage of strong survivors - in fact our problem eventually will be raising of so many plants. To all the many growers who have suffered heavy losses of seedling, including Walter Mills, I recommend a trial with crushed pine bark.

We are very careful to provide perfect drainage, and have always used a bottom layer of pine pieces, about one to two inches across, as tree bark is said to inhibit phytophthora (root rot). We germinate under mist, not glass covers (which may cause fungal growth through lack of air movement),

and keep them under mist until they are growing away. The mist definitely hastens germination, the seeds start to swell immediately. We spray with fungicide and a very week solutions of organic fertilizers. From observation of Vireya rhododendrons in their habitat, I believe that chemicals would do more harm than good, and that perfect drainage is more important than nutrition.

For this reason and because of our wet summer (a combination of warmth and wetness being the ideal condition for phytophthora), we always plant out on raised beds, or little mounds of free-draining material such as bark and coarse compost. We plant on slopes wherever possible and to prevent washing away we enclose the mounds with short logs to contain the compost. The only other assistance we give is a mulch of loose material such as dead leaves and twigs and we never fertilize them.

I noticed R. lowii on your list of species in cultivation, I do not have this and would like to correspond with anyone who has it.

Yours sincerely,
Leslie Riggall
Fern Valley Botanic Garden
Igwababa Road
Kloof 3610, South Africa

Using crushed bark is a new idea to me. It would be helpful to know the size of the particles of bark used and the species of pine. Its the first report of germinating under mist and certainly worth a try. How was Leslie able to saved pollen collected in Borneo for so long a time? (Fran)

Fred Renich California, USA Dear V.V, November 3, 1985

I really enjoy reading the V.V. and have picked up many helpful hints from the other Viners.

My climate is very unique here in Fillmore as it has plenty of sunshine for the plants and flower flower bud development but I must provide shade to keep from literally burning the plants to a crisp.

I am 25 miles from the ocean which at times can seem like 100. If we are under low pressure influence, we get the ocean breeze and the climate is ideal. If the desert and high pressure is the deciding factor, we can have temps as high as 120 degrees and at times very strong Santa Ana winds off the desert bringing humidity down to 10 % or less.

These winds can be very destructive, up to 50 miles an hour or more. They tend to be very gusty in nature and are what makes our fall fixeseason so devastating.

One thing to be said for our area here is the citrus fruits are in there glory and really thrive on this climate.

I am growing my Vireyas in containers and raised beds in a mixture of 1/3 course peat, 1/3 small fir bark and 1/3 perlite. I am fertilizing every 2 weeks with a weak solution of chelated iron and commercial acid fertilizer - 1/2 teaspoon to the gallon.

My problems with the desert heat and low humidity are doublely compounded by a water problem, probably unique to any other grower.

Our water here in Fillmore is extremely alkaline having high concen-

Our water here in Fillmore is extremely alkaline having high concentrations of calcium and sodium in it. If any other Viners out there have any good ideas how I can cure this problem, please let me know.

To keep my collection happy, I truck in all my water from a spring on the other side of our valley. The south side of the valley is all sandstone and thus the alkalinity and other pollutants are all filtered out of this water.

When our rainy season comes, I try to collect as much rain water as I can. Even with all this work, I still find growing these plants very rewarding and when one of my plants blooms, its all worthwhile.

Please accept my check for \$10 to help with your expenses.

Fred Renich 390 Foothill Dr. Fillmore, Ca. 93015

From H. W. Lewis Victoria, Australia Dear Vireya Vine,

First of all, I must pay my subscription which must be overdue, so I have enclosed a bank draft for \$10 U.S.

It is very interesting to read the various comments from Vireya growers from around the world and it is heart warming to know that many people are now growing members of this magnificent section of the Rhododendron genus.

I have been growing vireyas for sometime now and have had little problems in their management, except in growing seedlings on. After they have been pinched out into flats, some go ahead quite well whilst others stagnate and ultimately die. The only fertilizer they receive is a foliar spray of fish emulsion at half strength - roughly at forth nightly intervals.

Maybe the Rhododendron Species Foundation is not the proper place top launch plant hunting expeditions to known Vireya areas, to obtain both eds and cuttings but I believe something needs to be done by somebody along the line of the Fairmount Venture, where interested folks could subscribe to the cost etc. I realize great caution would be necessary before going into some areas on account of their political instability. However, I hope I have left the idea with you viners and something may happen.

Yours sincerely,
H.W. Lewis
7 Burroughs Rd.
Balwyn, VIC
Australia 3103

From M.D. Cullinane New Zealand

Dear Renee Hill, (Editor RSF Newsletter) November 19, 1985

I am enclosing \$10 U.S.for a yearly subscription to the Vireya Vine as advised in your newsletter Vol. 9 No. 4. (Rhododendron Species Foundation newsletter)

I have a collection of 36 different Vireya Rhododendrons and I am going to Papua New Guinea in August next year to collect some more.

Yours faithfully, M.D. Cullinane P.O.Box 8 Russell New Zealand

Ed Note; We print this note from Mr. Cullinane to point out that there are people going into the wild areas to look for Vireya Rhododendrons. Graham Smith from Pukeiti New Zealand is taking a group to New Guinea in August 1986 to look at plants (Rhododendrons of course).

From Dick Cavender Oregon USA
Dear V.V, November 29, 1985

It was a great surprise to see my letter of May 31 reprinted but a pleasant one. I have thinned out a number of extras and gotten to know several very nice people in the process. It has been nice to obtain some of the plants on my want list as well.

At present we have a couple of inches of snow, a wind of about 20 mph and a temp. of 22 so I will use the time to report the latest. We have about 6 plants of R. laetum in bloom now that have been nice for Thanksgiving. This is still one of my favorite yellows. R. hellwigii bloomed for the

first time with 3 large buds, 4 or 5 to the truss and very fragrant. I put R. laetum and R. laetum x christianae onto this and will send seed, if any, to Esther Berry. R. longiflorum, a nice clear pink, bloomed for the first time also.

A long awaited bud on a plant labeled R. superbum, C.W. 2700 m, Finisterre Mt., P.N.G. by Paul Kores finally opened and was a real surprise. Instead of a fragrant white it is a dark waxy red with no fragrance. I have 5 or 6 of these plants. Tom Tatum grew the plants from seed and they all look like the same plant but it sure is not R. superbum. The flower is tubular-funnel shaped, shiny waxy deep red, with 8 petals. The leaves are obovate and covered with brown scales on both sides when young. I do not know when this seed was collected but it was a number of years ago as the plants are fair sized. Does anyone else grow plants from this collection and have the bloomed them?

Another first time bloom and one that does not look like its supposed parents is a cross of (laetum x phaeopeplum) x (laetum x Konori). This is just opening but will be a solid orange-red with 10-12 to a truss. Flowers somewhat smaller than laetum. Looks like it will be nice. I saw a picture at the Western Regional of a plant called herklots #5 that I would like to have. I seem to remember Tom Tatum having it at one time but think he lost it. It is white with brown scales and shaped like R. scabridibracteum. Ver unusual. Any one growing it?

Nice to see Stan Eversoles photos of R. goodenoughii in the last A.R.S. Journal. I have 3 or 4 plants in bud so it will be interesting to see what they are like. E. White mentioned that he is trying to get a complete inventory together. I am in the process of buying a computer and when I learn to use it I hope to get all my plants into it. Will send a copy when I do. I have lots of different things and am always willing to sell or TRADE.

Thought it might be time to send more money so am enclosing a check for \$10. Keep up the good work.

Dick Cavender 15920 S.W. Oberst Ln. Sherwood, Ore. 97140

We have two photos of Herklots 5. Art Dome photo taken in Australia has 4 flowers and a straight tube. J.P Evans photo has 8 flowers and tube is slightly bent. Looks like a selected form of R. scabridibracteum. Would be a good addition to any collection. Let us know more about it? (Fran R.)

From Graham Snell, Victoria, Australia Dear VV, October 12, 1985

Some comments on your list of species. (from VV8 ed.) There are obviously some listed that are not grown in Australia to my knowledge, and it might help to tract down desired material if a list was published with initials of where they are being grown, eg Aust, Wa, Ed, just to cover the three that you mentioned.

Species that I would like to track down from your list include; R. abietifolium, citrinum, durionifolium, exuberans, himantodes, keditii, lineare, neiuwenhuisii, praetervisum, rubellum, salicifolium, stapfianum, vaccinioides, verticillatum, gaultheriifolium, planicostatum, and villosum. I suspect that most are in Edinburgh as they are largely N. Borneo species. (yes these are from a list from Edinburgh and I do have the list with who has the plants in the dBASE II computer program. I must note though that I have asked for people to send me the name of species plants that they grow so that I can make the list of plants in cultivation more complete. If a person needs the list with owners, write to us and I will send it on. E. White ed.)

Are you sure R. snellae exists? I suspect that it originates from Clive Smith's miss reading my bad writing of Snellae. It would be nice to

have a plant named after you, if you deserved it, but I certainly do not consider that I do, and I have not seen it listed anywhere else!

Incidentally you listed 125 species, inc snellae; while we grow 107 of them here in Australia at present. Just think of how many hybrids must be possible from that lot.

Recently we had two interesting flowering's, the first being R. saxifragoides, from a plant we collected in P.N.G. in 1981. I believe this to be the first time it has flowered in Australia. We have also just flowered R. gardenia here in Melbourne for the first time, although it has flowered for several years in Wollongong N.S.W. Our bloom had 24 large, perfumed, creamy florets in the truss, which does not correspond to the Sleumer descriptions at all.

Graham L.S. Snell 970 Mountain Highway Boronia, Victoria Australia, 3155

If R. snellae does not exist, I shall remove it from the list. I may wait for a bit to see what other people say though. (what does Clive Smith know about this?) I think that we must get with the people at Edinburgh and get to plants into the USA, NZ and Australia. I have had R. vaccinioides for ars having gotten a cutting from Frank Doleshy. It is a bit hard to keep alive and has bloomed once. (no big deal, the bloom) I have written to the people who publish the Himalayan Plant Journal in Kalimpong India and asked him to keep a eye open for the Vireya species that grow in the Sikkim - Himalayan area. They may do some work with Rhododendron in 1986. Nice small Journal. (address: Primulaceae Books, Abhijit Villa, B.P.O. Ecchey, Kalimpong- 734301, Dist. Darjeeling ((W.B.), India.) E. White

From Michael Cullinane New Zealand
Dear Vireya Vine January 9, 1986

Five years ago, my wife bought me R. laetum x zoelleri No. 10 and thus started my obsession. I now have thirty six different vireyas, eleven of which are species and the remainder hybrids. I started growning them under high shade and found by accident that they fared much better in full sun. They are now all in full sun, which produces many more flowers and makes the growth habit more compact, by shorter inter-nodal length and shooting from the base. The garden site is 35.15 south, fifty metres above sea level and two hundred mettes from the sea. Annual rainfall would average 1200 mm. Winter temperatures range from 2 C to 16 C and summer ranges from 14 C to C, with not many days of high humidity.

The Vireyas are planted in heavy clay, with attention paid to drainage. They are also heavily mulched, as are our alpine rhododendrons and azaleas. I have found they rather resent fertilizer and do not care for plentiful watering. Once established they grow about 40 cm per year on average and flower almost-continually. I can depend on eight being in flower at any given time. Pink Delight, the Veitch hybrid from the 1860's has been flowering for over a one year. R. jasminiflorum flowers regularly every 2 or 3 months. R. lochae, the Australian native, does not appear to be remontant but its one flowering is for a lengthy period. All is not sweetness and light, however. R christianae is one I have trouble with. I have lost two and the present one would not win any prizes for plant thrift. I have kept records of their growth, flowerings etc. and over the years, amongst the hybrids, a pattern of performance is emerging. Our proximity to the sea does not appear to worry them, or the 70 odd rhododendrons and azales. Several times a year we get storms coming in from the Pacific with the attendant salt spray making our house windows somewhat opaque defoliating the roses, but genus rhododendron, from macabeanum to nervulosum are unimpressed.

I would like to receive some suggestions concerning R. christianae,

and also retusum which may help. I am currently setting up a quarantine house in order to import more Vireyas.

Yours faithfully, Michael Cullinane P.O Box 8 Russell, New Zealand

Anyboby who can growth Vireyas in clay must have a green thumb. The amount of water required seems to depend on type of soil or mixture. Also there is a great difference of opinion on the amount of fertilizer Vireyas will tolerate. I have also found the more sun light Vireya receive the better the flowering. However, up our way too much sun can burn the leaves. Our winter days are quite short and additional would probably improve both growth and flowering. Other opinions? R. christianae can be hard to grow but this is the first report of problems with R retusum. Let us hear about other experiences with these two.

We recently, received three pictures from Dick Cavender of a plant belonging to Tom Tatum. The pictures were taken about 6 or 7 years ago. The plant was labeleb "Herklots #5". The plant is similar to R leptanthum, R beyerinckianum and R. phaeochitum but has yellow flowers. An outstandin plant but Dick does not beleive Tom is now growing it. It does not look like the plant Art took a photo of. Will the real "Herlocks #5" please step forward.

Stan Eversole has bloomed what appears to be a dwarf form of R. goodenoughii. He says the leaves, stature and flowers are smaller than type. The plant is labled Cruttwell 1410. Is anyone else growing a plant under this label and if so do you know what it is?

VIREYA VINE RHODODENDRON SPECIES FOUNDATION P.O. BOX 3798 FEDERAL WAY, WA. 98063 U.S.A.

## A CENSUS OF THE SPECIES OF RHODODENDRON, Sect. VIREYA,

## pt. I: GEOGRAPHICAL DISTRIBUTION

For some years I have been interested in preparing a census of the species of Rhododendron classified in the section Vireya. While Vireya is predominantly found in the area loosely termed Malesia, extending from peninsular Malaysia to the Solomon Islands and north east Australia, there are 9 described species occuring in an arc from Sikkim and northern India eastward to Vietnam and formosa. Literature on these latter species is scattered and not easy of access. This has now been brought together and I believe that the attached census includes all those currently accepted species of sect. Vireya, at least in the literature to Dec. 1984.

Or. Herman Sleumer has provided us with an excellent basic classification of the Malesian Vireya culminating in his treatment of the family Ericaceae in Flora Malesiana ser. I, vol. 6, pt. 4 of which the section devoted to Rhododendron has been available as a separate volume. Sleumer used a number system for each species and this has been retained in the present Census. Another important paper is Sleumer (1960) in which all species of sect. Vireya then available have been placed in keys. Extra-Malesian species were not numbered. In addition there are a few new species described in Sastry et al. (1969), Woods (1978) and Argent (1982). The authors of these new species usually indicated relationships and it has been possible to check the descriptions through Sleumer's keys leading to the allocation of A (sometimes also 8 & C) numbers into the Census. There are two species R. vaccinoides and R. asperulum which preceed the numbered species in subsect. Euvireya, these have been numbered A1 and A2.

Recent authors have reduced a small number of the species accepted by Sleumer into the synonomy or sub-specific status of other species. To avoid numerical gaps I have included all species accepted by Sleumer (1966) with an indication of the change of status of the name.

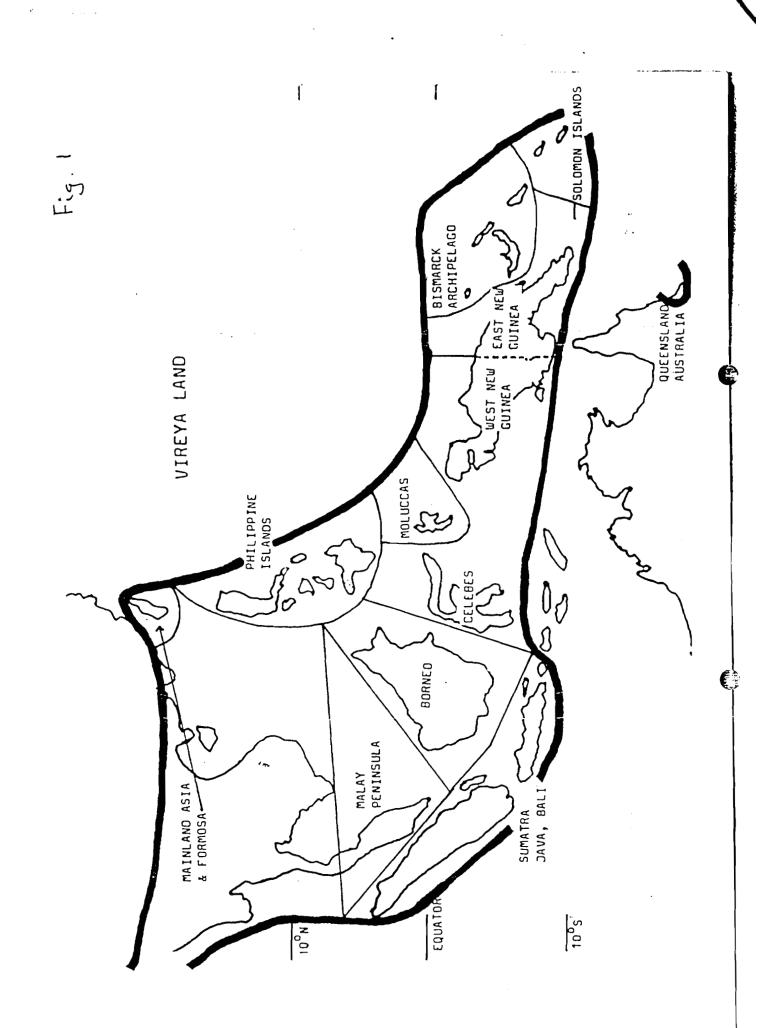
The geographic regions used in this Census are those delineated on the attached map of what I am calling VIREYA — LAND. Boundaries used have no political relevance.

The bibliography includes all relevant recent papers as well as a few older ones which have not been readily available. Copies of all papers are now held in my library and photocopies can be supplied.

Part II of the Census will be an alphabetically arranged listing of the species names to numbers. This will be compiled in early 1986.

Part III will require an alphabetically arranged index to the many names which have been reduced into synonomy over the years. This will require full citation of the original publication data together with the accepted species now including this taxon and the authors involved. No completion date can be forecast for this part.

John S. Womersley, August 1985.



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69	HAENATOPHTHALMUN		<u> </u>	}	}	}			•		<b>[</b>
70	PHAEOPS	}	{		}	}	1	{	•	{	}
71	TRUNCICOLUM	}		}	}			}		-	•
72	RAPPARDII		ļ	]	}				•	}	}
73	DIANTHOSMUM		}		<b>[</b>		}	ł	•	{	}
74	AUBELLUM ,						}	}		•	<u> </u>
	MALAYOVIREYA		) }							}	}
75	HILMANTODES	{			}			}		}	
}		}	}	SABAH SARAWAK			}	}			{
76	VINICOLOR		ĺ	KALIMANTA	<b> </b>		}			}	
_	0.070.470.7.4			[	SUMATRA		<u>}</u>	[			l
77	DURIONIFOLIUM	}		5ABAH	}		Į	}			
				kalthanlan Jeshxeyk			{	}			}
78	FALLACINUM	1		•	·		{				}
			1	SABAH			{			}	
79	APOANUM			}			}	•		}	}
80	MALAYANUH	}	Ì	•	{	•	}			}	, ,
80A	MICPOHALAYANUM	}	1	SARAWAK			{				}
61	NORTONIAE	}	}	}	}			} •	 		}
82	ACUMENATUM			•			{				]
		<u> </u>	1	SABAH	}		1	1	' 		}
83	FORTUNANS		Ì	KALIMANT	au		}	}	· 		}
84	LINEARE		1	•	}		[	[			]
es l	OBSCURUM		}	SARAWAK				]			}
86	VARIOLOSUM		•	}				]			
~	VACUUSON.	{	{ .	SABAH	}		:				
87	WILHELMINAE	}	}	SARAWAK	•			}		{	}
} [				}	AVAL			]			}
86	HYBRIDOGENUM		•		}			{		}	
	ALBOVIREYA		}			1	}	}		}	
æ	ALBUM				•	) 		]		}	<b>[</b>
[ _	AENIADTI E		}		AVAL					}	
90	AEQUABILE		}		SUMATRA						{ ·
91	PROLIFERUM			}			) 	]	•		
92	ZOLLINGERI				*	•		•			
<b>}</b>			}		AVAL			}		}	}
				1							]
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•		RHODODENDADN SPECIES	ASTA MAINLAND FORMOSA	MATASAT VA	BORNEO	BUMATRA JAVA BALI	CELEBES	NOLLICEAS	PHILIPPINE ISLANOS	WEST NEW SUIDNEA	EART NEW GUIDNEA	BISMARCK/ BOLOMONS/ AUSTRALIA	
	93	LAGUNCULTICARPUN					•						
	94	AETTIOLII	}					· ·			•		
	95	CORRECIDES	}	{				<b>{</b>		•		\	
	96	COMPTUM	{	(				(			•	{	
	97	LAMPONGUM		[		*		1				<b>∤</b>	
	96	CERNULIM				SUMATRA * SUMATRA							
	99	PUDORINUM					•					,	
	100	APENICOLUM					•						
	101	GIULIANETTII			ì			) .	[			}	
	102	VERSTEEGII		}	-					•	]	\ 	
		SOLENOVIREYA										(	
	103	MULTINERVIUM					ı .		;				
	104	NATALICIUM			}					1			
: ;	105	AUTTENII		Ì		{	[	. •					
	106	RHOOOSALPINX			ļ		}	}	,	•	ĺ		
	107	STAPFIANUM					}	}				{	
	106	CHAMAEPITYS			SABAH *			<u> </u>			 		
		1			SARAWAK	}	<u> </u>		İ .		}	}	Ċ
	109	WACROSIPHON			]	}	ł	]		•			
	110	CARRINGTONIAE		Ì			Į		}		•		ĺ
	111	CARSTÈNENSE				ĺ							
	112	SYRINGOIDEUM			[	]		1	Į	_			, ·
	113	CRUTWELLII					ł	Į		•			
	1144					1							Ì
	115	ARCHBOLDIANUM		}	[	ĺ	ļ	}			.	Ì	1
	116	PLEIANTHUM			1	l	1		ļ			}	(
	1164	SEARLEANUM				1	}		Ì	}			1
	117	CLIGANTHUM			]	1				<u> </u>			}
	118	CARRII										]	1
	119	ARMITII		}	(							1	
	120	TUBA			in	}	}			]. :			
	121	RH000LEUCUM				}		]		١.			
	122	PUBITUBUM			}					İ			1
	123	PSELIOOTRICHANTHUM			KALIHANTA	<b>,</b>							
•	124	AMABILE	1		}					[			1
	125	RADIANS	}										l
	126	OPEADUM											
	127	CINERASCENS											
	128	BRACHYPODARIUM								} .			1
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	RHOXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ASIA WAINLAND FORMOSA	MALAY PENINSULA	BORNED	SUMATRA JAVA BALI	CELEBES	MOLLICCAS	PHILIPPINE ISLANDS	WEST NEW GUILNEA	EAST NEW GUINEA	BISMA BOLDM AUSTR
129	6000ENORGIZ										<del> </del>
130	PNEUMONANTHUM	}		SARAWAK KALIHANTA							{   
131	OPERCULATUM			SARAWAK BRUNEI SABAH							} }
132	EDANOI	{				}	1			}	}
133	LORANTHOFLORUM		}					-			BISMA
134	RETRORSIPILUM									}	SOLOW
135	SUBPACIFICUM . LORAN	HOFLORUM				}	}	]	) 	}	}
136	JASKINIFLORUK		•		\$UMATRA			•		} }	
	ELVIREYA				) 					<b>{</b>	
	ser. Linnaecides						1.			}	}
137	ANAGALLIFLORUM								•	•	BISWA
137A	RUBINETFLORUM					}	}			•	
138	WOMERSLEYI						}	}		•	]
139	GRACILENTUM					l	ł	}		•	
140	CAESPITOSUM						}		•	}	}
141	MICROPHYLLUM						ļ	} }	•	<u> </u>	
142	PUSTLLUM						}		•		1
143	MUSCICOLA							{	•	\ \	ĺ
144	PARVULIN			}			{	}	•	}	
145	0XYCOCCOIDES		}	{					•	{	
46	DISTERIGNOIDES COELDRUM								•	•	
	ser.Saxifregoidea								i	}	
148	SAXIFRAGOIDES		}			•		. }	•	•	}
	eer. Taxifolia										
149	TAXIFOLIUM			120				•		}	
	ser. Stenophylla					1	,	}		}	
50	STENOPHYLLUM			* SABAH		1			•		
151	MASINITES									}	}
152	STBOTOSOM						}		•	}	
153	PURPUREIFLORUM								•	•	
	ser. Citrine										
154	CITRINUM				# SUMATRA						
					AVAL						
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	1		1	[			<b>,</b>			1	1

í		RHODODENORON SPECTES 6	ABIA MAINLAND FORMOSA	MALAY PENINGULA	BOPNEO	BUMATRA JAVA BALI	CELEBES	NOLUCCAS	PHILIPPINE ISLANDS	Webt New Gutinea	EAST NEW GUINEA	BIBMARCK/ BOLDHONS/ AUSTRALIA
,											· ·	
	155	ser. <u>Buxtfolia</u> FREY-WYSSLINGII			}		}					}
					}	SUMATRA	}	} .				}
	155*	IITRUB,			SARAWAK	}	}	}				}
	156	PUBIGERMEN			}	SUMATRA	}	}				
	157	VIDALII			}		}	}				}
	157/	M-ILLENE-VOIT			{				•			{
	158	HATAMENSE								*		
	159	VANDEURSENII - VITI	SIDAEA									(
• '	160	CORNU BOVIS			}	{		{	}	•		
	161	PLANECOSTATUM			#. SABAH	{						
	162	BAGOBONUM						{	•			
	163	NIEUWENHUISII			*	}	}					
				1	BRUNEI KALIMANTAN							
i :	164	PSEUDOBUXIFOLIUM					•					}
:	165	COMMONAE						}			•	{
	165	ABIETIFOLIUM			SABAH			{				}
	167	SHEILAE			# SABAH							
	168	PAUCIFLORUM		•	J-D-M			}	}			]
	169	PSAMMOGENES			}			}	}	•		}
	170	VITIS-IDAEA							}			}
	171	AHCCOSTOMUM			}				}			{
	172	ALTERNANS		1	}		•		}		{	{
	173	LEPTOMORPHUM			}		*					{
	1734	STEVENSIANUM	W.A.C.	) 	}						*	
	174	PSEUDONITENS - COMM HELLODES	NAE					{				
	176	PAPUANUM		) ,	}				[ ]	•		{
	177	ACPOPHICELUM										
	178	BANGHANIDALIM			[	•	,					}
	179	RIPLEYI			·~	SUMATRA				,		{
	', 3				}	SUMATRA						
	180	ALTICOLUM					1				•	
	181	PYRRHOPHORUM				# GLIMATRA						1
•	182	LITEOSCUANATUM						}	}		•	}
	183	INCONSPICUUM								•	•	}
	184	LAMII								•		
ļ	185	PORPHYRANTHES						[		•		
} }	186	SIMULANS							]	•	}	}
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			ASIA WAINLAND FORMOSA	YAJAN AJUENINGA	BORNED	SUMATRA JAVA BALI	CELEBES	MOLLICCAS	PHILIPPIN ISLANDS	WEST NEW GUINEA	EAST NEW GUIDNEA	BISHAROX/ BOLOMONS/ AUSTRALIA
110	,	IN TTURN				!						<del></del>
.]	36	BRASSII								•		}
16	- }	SUBULIFERUM	}		}					•		}
4	l				}			}		•		1 1
1	<del>7</del> 0	SCARLATINUM	}				•	}				}
-	91	ATROPURPUREUM	•					}			•	} }
15	S2	BUXIFOLIUM	<b>;</b>		SABAH							}
19	93	WRIGHTIANUM	•		}			{		•		}
19	<b>34</b>	SUBCRENULATUM	}							•		}
15	95	RUBROBRACTEATUN						]		•		<b>1</b>
15	26	CALDSANTHES :				,				•		<b> </b>
	- {											1
	- {	ser. <u>Jevanica</u>			ļ							1
15	37	VERTICILLATUM			SARAWAK							
19	<b>9</b> 8	RUGOSUM			SABAH							
19	98A	CORITFOLIUM			•							
1				}	SABAH							}
15	<del>9</del> 9	KEDITII		}	SABAH							
15	994	YONGII			SARAWAK		  -  -					
				}	SAFIAWAK							}
1	20	CHRISTI		{							•	}
1	31	CURVIFLORUM		}			 			•		
1	02	VILLOSULUM		}						. •		
1	03	GLABRIFLDRUM		}						4		
1	04	PACHYCAPPON									•	}
Ţ	05	CELEBICUM		{	}		•					}
t	06	SAYERI		}	}						•	1
1	22	PACHYSTIGNA		}	}					•		
}	ОВ	ANGULATUN		{						*		}
5	C9	LOERZINGII		}		AVAL						
2	10	IMPRESSOPUNCTATUM		}	{	{		•				
z	11	XANTHOPETALLIM			-				•			
2	12	HERTOLEPIDOTUM								•		
2	13	PSEUDOMURUDENSE			KALIMANTA	N	 		•			
2	14	SERANICUM		1	}			•				.
2	15	LOBOENSE										
2	16	WILLIAMSII		1			o o de proposition N. Although	G-MENNING MICE	, where			
2	17	ROBINSONII		**								,
2	18	PARILEPIDOTUM				SUMATRA .						
2	19	MULTICOLDA										
2	20	BREVITUBUM				SUMATRA						
1	1				KALIMANTA	N						[
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POTICES 6 FORMOR SULTANA SAMATRA  SAMAT	ř.,,	_		AIBA	WALAY	BORNEO	SUMATRA	CELEBE8	NOLUCCAS	PHILIPPINE IBLANDS	WEST NEW	EAST NEW	BIBWARDK/ BOLOMONE/	
SCHOOLIN  SAATA  SAALDIS  SUALTIMITA  SAATA		1		MAINLAND	PENINSULA		JAVA			TRIMOS	GUINEA	GUIDNEA	AUSTRALIA	
ALIMITA  MULTONII = R. LAVANITAM NO. MOLTONI  SAMANA DANA  SAMATA  SAMANA DANA  SAMATA  SAMANA DANA  SAMATA  SAMANA DANA  SAMATA  SAMATA  SAMANA DANA  SAMATA	221	SESSI	LIFOLIUM				SLMATRA							
PARAMETER PROPRIES  226 MONATORI - R.JANNOCIM BED. NOLTORII  226 PEPRERIM  227 OPASSFOLIM  228 BROTTIZIAMA  229 DEGETAMAM  231 WINTON  231 WINTON  231 WINTON  232 OMPTELIMA  233 OMMITTIM - R. LONGFLORM Mr. SECONOTIM  234 SECONOTIM - R. LONGFLORM Mr. SECONOTIM  235 VANAMENII  236 LEPTORIMOGIN  237 SPLECHERI  238 LEMORESCHII  240 LEMORESCHII  241 ROMERONUE  242 OMPTELIMA  243 OMPTELIMA  244 OMPTELIMA  245 OMPTELIMA  246 OMPTELIMA  247 OMPTELIMA  248 LEMORESCHII  249 OMPTELIMA  240 OMPTELIMA  241 ROMERONUE  242 OMPTELIMA  243 OMPTELIMA  244 OMPTELIMA  245 OMPTELIMA  246 LOPME  247 OMRITIMAE  248 LOPME  249 LOPME  240 LIMALERISE  251 ROLINITEM  252 KOORI  253 POLINITEM  254 OMRITIMAE  255 PLANNIERE  256 OMRITIMAE  257 OMRITIMAE  258 LOPME  259 LOPME  250 LIMALERISE  250 LIMALERISE  251 ROLINITEMA  252 KOORI  253 ROLINITEMA  254 KOORI  255 POLINITEMA  256 SANAMA  257 OMRITIMAE  258 LOPME  259 LOPME  250 LIMALERISE  250 LIMALERISE  251 ROLINITEMA  252 KOORI  253 ROLINITEMA  254 KOORI  255 POLINITEMA  256 SANAMA  257 ROLINITEMA  258 KOORI  258 KOO	222	BECCA	AII		}		SUMATRA				}			
SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SALITA  SMANK SHANK  SMANK SHANK  SMANK SHANK  SMANK SHANK  SMANK SHANK  SMANK	223	KEMIL	ense		}	KALIHANT	4				JAPANESE E S	-		
SANAN SALTA  SANATA  S	224	HOULT	MAVAL,R = IINOT	UM sep.	MOULTONIS	1		} .				}		}
SMATA  SM	225	JAVAL	VICLM		•		JAVA BALI							
SAGAM SCAM SCAM SCAM SCAM SCAM SCAM SCAM SC	226	PERP	LEXUN				_							
DESCRIPANIA  DESCR	227	CRAS	sifolium			SARAWAK SABAH								
229 BACRITZIANAM 201 DISCRIANAM 202 DISCRIANAM 202 CISTOCILIA  203 COMMITATUM - R. LONGIFLORAM VAR. SUBCOPORTUM 203 SECORRATUM - R. LONGIFLORAM VAR. SUBCOPORTUM 203 VANNAMENTI  204 LEPTOBRACION 207 SCHECHTERI 208 LEUGIGAS 209 LUMPHENSE 201 BURGERSE 201 BURGERSE 201 BURGERSE 201 MACGEGORIAE 202 OCIVALERI ANNUM 203 POSENOALII 204 COMPARIBLE 204 LUMPLUNSE 205 LUMPALUNSE 206 FLAVOVIRIDE 207 CHISTIANAE 208 LUFIUM 209 SCARGIDIBRACIELM 200 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACIELM 201 SCARGIDIBRACI	220	e RHOO	XOPUS		}			•			1			
231 VENTIANIA 232 CUSTDELLIM 233 COMMITATIU - R. LONGIFLORUM VAF., SUBCORDATUM 234 SUBCORDATUM - R. LONGIFLORUM VAF., SUBCORDATUM 235 VANNUFENII 236 LEPTOBRACHION 237 SCHECHTERI 238 LELCOGIGAS 239 LOMPOPENSE 240 BURENSE 241 BUDEMBERGERIII 242 MCGREGORIAE 243 CHEVALIERI ANNAM 243 PROSEDDALLII 244 COEVALIERI ANNAM 245 LUPALUENSE 246 FLAVOVIRIDE 247 CHEVIM 248 FLAVOVIRIDE 249 SCAGRIDIBRACTEUM 249 SCAGRIDIBRACTEUM 250 LONGIFLORUM 251 POLYANTHEMAM 252 KOCHII	l		HITZIANUM			}	1	1				1.		
CUSPIDELLIM COMMITATIN - R. LONGIFLORIM VAIT. SUBCORDATIN SUBCORDATIN - R. LONGIFLORIM VAIT. SUBCORDATIN SUBCORDATIN - R. LONGIFLORIM VAIT. SUBCORDATIN  236 VANAUMENTI 236 LEPTOBRACHION 237 SCHLEMTERI 248 BLDEMBERGERI 240 BURLENSE 241 BLDEMBERGERII 242 MAGGREGORIAE 243 ROSENDALIII 244 COMPARIBLE 2441 LOCHME 245 LUPALLENSE 246 FLANOVIRIDE 247 CHISTIAMAE 248 LUPALLENSE 249 SCARRIDIBRACTELM 249 SCARRIDIBRACTELM 250 LUNGIFLORIM SARAWAK SLMATRA 251 POLYANTHEMAN SABAH SSBAH 252 KOCHII	23	O ENGL	LERIANUM		}	{						1.		
COMMOTATINE - R. LONGIFLORUM Var. SUBCORDATUM  SUBCORDATUM - R. LONGIFLORUM Var. SUBCORDATUM  VARVUPERITI  235 VANNUPERITI  236 LEPTOBRACHION  SCHLECHTERI  238 LELOGITAS  229 LUMPHENSE  240 BURLENSE  241 MACGREGORIAE  242 OFEVALTERI  ANNUM  ANNUM  ANNUM  243 ROSENDAHLII  244 LOCHAE  245 LURALUENSE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCARRIDIBRACTEUM  249 SCARRIDIBRACTEUM  250 LONGIFLORUM  SAANWAK SUMATRA  SABAH  251 POLYANTHEMAM  SABAH  SABAH	23	MEN	TIANUM											,
SECOPDATUM - R. LONGTELORUM Var. SLECOPDATUM  235 VANNUFERII  236 LETOSTRACHION  SCHECHTERI  238 LELOGIGAS  239 LUMPHENSE  240 BUPLENSE  241 MACGREGORIAE  242 OFEVALTERI  243 POSENDALII  244 LOCHAE  245 LURALUENSE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCARRIDIBINCTEUM  249 SCARRIDIBINCTEUM  250 LONGTELORUM  SAANWAK SLMATRA  251 POLYANTHEMAN  SAGNIL  SAGNIA  S	23	_		}		}		1			}	1		
235 VAMMUFENII 236 LEPTOBRACIDON 227 SCHLECHTERI 239 LEUCOGGAS 239 LOUPOHENSE 240 BURLENSE 241 BLOERGERGENII 242 MAGREGORIAE 243 POSENDAHLII 244 COMPARIBLE 2444 LOCHAE 2445 LUPALLENSE 245 FLAVOVIRIDE 247 CHISTIANAE 248 LAETUM 249 SCARRIDIBRACTEUM 249 SCARRIDIBRACTEUM 250 LONGIF LORAM 251 POLYANTHEMAM 251 POLYANTHEMAM 252 NOCHII	23									1		{		
LEPTOBRACIGON 277 SCHLECHTERI 238 LELCOGISAS 229 LOMPOHENSE 240 BURLENSE 241 BLOEGERGENII 242 MACGREGORIAE 242A CHEVALIERI ANNAM 243 ROSENDAHLII 244 COMPARIBLE 2444 LOCHAE 245 LIPALLENSE  246 FLAVOVIRIDE 247 CHISTIANAE 248 LAETUM 249 SCARRIDIBRACTEUM 249 SCARRIDIBRACTEUM 250 LONGIFLORUM 251 POLYANTHEILM 252 NOCHII  253 NOCHII  254 NOCHII 255 NOCHII 255 NOCHII	25	34 SUB	CORDATUM - R, L	ONGIFLORI	M var. Su	BCDFDATUM				}				
SCHECHTERI  238 LELCOGIGAS  239 LOUPOFENSE  240 BURLENSE  241 BLDEMBERGENII  242 MAGGREGORIJE  243 POSENDAHLII  244 COMPARIBLE  2444 LOCHAE  245 LURALLENSE  301 OPHISTIANAE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCABRIDIBRACTEUM  250 LONGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SABAH  SABAH  252 NOCHII	2:	35 VAN	MURENII					•		1	}			
LELCOGIGAS  239 LEUCOGIGAS  240 BURLENSE  241 BLDEMERGENIII  242 MCGREGORIAE  242A CHEVALIERI ANNAM  243 ROSENDALII  244 COMPARIBLE  244A LOCHAE  245 LUPALUENSE  246 FLAVOVIRIDE  247 CHRISTIANE  248 LUETUM  249 SCARRIDIBRACTEUM  250 LUNGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SARAWAK  S	2:	36 \ LEP	TOBRACHION	1				•		}				
LUNPOLENSE  240 BURLENSE  241 BLOEMBERGENII  242 MACGREGORIAE  242 CHEVALTERI  243 POSENDALLII  244 COMPARIBLE  244 LUCHAE  245 LURALUENSE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCAGRIDIERACTEUM  250 LUNGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SAGAH  SAGAH  SAGAH  SAGAH	2	37 SC⊁	<b>LECHTERI</b>							}		{	{	
BURLENSE  241 BLOEMBERGENII  442 MACGREGORIAE  243 CHEVALIERI ANNAM  244 COMPARIBLE  244 LOCHAE  245 LURALUENSE  30LOKKIS  46 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCABRIDIBRACTEUM  250 LUNGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SABAH  SABAH  252 KOCHII	2	38 LEN	COGIGAS				1	1 .				{		}
BLDEUBERGENII  242 MACGREGORIAE  243 OFENALIERI  244 COMPARIBLE  244 LOCHAE  245 LURALIENSE  30LOMONS  446 FLAVOVIRIDE  247 CHRISTIANAE  248 LASTUM  249 SCABRIDIBRACTEUM  250 LONGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SABAM  SABAM	2	.co   ec	MPOHENSE		}	}	-			1	}	}	{	
242 MACGREGORIAE 242A CHEVALIERI ANNAM  243 POSENDALII 244 COMPARIBLE 244A LOCHAE  245 LURALUENSE  30LOMONS  FLAVOVIRIDE 247 CHRISTIANAE 248 LAETUM 249 SCABRIDIBRACTEUM 250 LONGIFLORUM 251 POLYANTHEIAM 252 KOCHII  SARAWAK SUMATRA 252 KOCHII	2	1											{	
242A CHEVALIERI  243 ROSENDAHLII  244 COMPARIBLE  244 LOCHAE  245 LURALUENSE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LUETUM  249 SCABRIDIBRACTEUM  250 LUNGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMUM  SARAWAK SUMATRA  SABAH	Z	241 BU	DEMBERGENII		}		1			1		} .	. {	
ANNAM  243 ROSENDAHLII  244 COMPARIELE  244A LOCHAE  245 LURALUENSE  70 SOLOMONS  71 CHRISTIANAE  248 LAETUM  249 SCABRIDIBRACTEUM  250 LONGIFLORUM  SARAMAK SUMATRA  251 POLYANTHEMUM  SABAH  SABAH	2	242 44	CGREGORIAE				}	{		1		}	{	
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244 LOCHAE  245 LURALUENSE  , 246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCABRIDIBRACTEUM  250 LUNGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMAM  SABAH  252 KOCHII	.  :	1							[	{		1	• }	}
245 LURALUENSE  246 FLAVOVIRIDE  247 CHRISTIANAE  248 LAETUM  249 SCABRIDIBRACTEUM  250 LONGIFLORUM  SARAWAK SUMATRA  251 POLYANTHEMUM  SABAH  SABAH	}:	244 🛭 🛭	DUPARIBLE					}	{	ļ		}		41 TA
245 LURALUENSE  , 246 FLAVOVIRIDE 247 CHRISTIANAE 248 LAETUN 249 SCABRIDIBRACTEUN 250 LONGIFLORUN  SARAWAK SUMATRA  251 POLYANTHEMUN 252 KOCHII		2444 10	OCHAE	}				}					- 1	1
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		251	POLYANTHEMUM			546	HAI							
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	RHOCCOENDRON BPECIES	ASIA MAINLAND G FORMOSA	MALAY PENINSULA	BORNEO	SUMATRA JAVA BALI	CELEBES	HOLUCCAS	PHILIPPINE ISLANDS (	WEST NEW GUINEA	EAST NEW GUIDNEA	BISMARCK/ NACMOLOGS ALLASTRULA	
254	AURIGERANUM									•		
255	ZOELLERI						•		•	•		
256	MAXWELLII		Į	•	ļ		Į				, ,	
257	NERVULOSUM		}	SABAH * SABAH			}	,	 			
258	SALICIFOLIUM			SARAWAK			<u> </u>	) 	,			
259	LANCEDLATUM		,	SARAWAK		[ ]			1			
260	SUMATRANUM				SUMATRA	1					·	
261	ARFAKIANUM ;	}	}				)		•			
252	FUCHSII	1		# . SABAH							}	
263	IMPOSITUM	}	}	SABAH				j			]	
264	LEYTENSE					•	<u> </u>				j ·	(
265	BRACHYGYNUM	1					Ì	]	l			
266	MINDANAENSE	1					Ì				·	
257	PENSCHIANUM				# FLORES		ĺ				} }	
258	CULMINICOLUM	}	}				<u> </u>	}	*	*	}	
268 <b>4</b>	BLACKII	}		į			}			•		
2688	PRAETERVISUM			* SABAH								
269	MOLLIANUM	[					}	[	•	1		
270	POREMENSE	}				*						
271	STRESEMANNII	\ ·						]			[	
272	RETIVENIUM			* SABAH				 				
<b>2</b> 73	LOWII			SABAH				}				
274	INTRANERVATUM			# SARAWAK							]	
275	TOXOPEI			SABAH							1	
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276	BROOKEANUM - R.JAV	ANICUM 550	BROOKEAN	im						}		
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