

XIV. BIBLIOGRAPHY

(continued from page 2475)

The entries have been split into five categories: a) Algae - b) Fungi & Lichens — c) Bryophytes — d) Pteridophytes — e) Spermatophytes & General subjects. — Books have been marked with an asterisk.

a) Algae :

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- *The tree-ferns of the genus Cyathea in Borneo (Cyath.)* Gard. Bull. Sing. 27 (1974) 167-182.
Key to subgenera; key to 30 species of Cyathea.
- *Studies in the family Thelypteridaceae. VI. Haplodictyum and Nannothelypteris (Polypod.)* Kalikasan 2 (1973) 58-68.
Keys to species. Several new species and new comb.
- *Ditto. VII. The genus Chingia (Polypod.)* Kalikasan 3 (1974) 13-28.
Key to 17 species, 7 new, 10 new comb.
- *Ditto. VIII. The genera Mesophlebion and Plesioneuron (Polypod.)* Blumea 22 (1975) 223-250.
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- Ditto. IX. The genus *Sphaerostephanos* in the Philippines (Polypod.) Kalikasan 4 (1975) 47-68.
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Keys to 7 species in each genus; several new species; several new records for Malesia.
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A reprint of Dr. Bor's magnum opus was certainly needed as the rather limited original edition was soon out of print. One wonders, however, why the publishers price this book at DM 220, when the original cost was only £ 4. One can hardly believe printing costs have gone up at least by 7 times. Why, also, at this price, has the 5-paged appendix with new names, earlier citations, new genera, new records, corrections and additions to the Flora been rotoprinted and not type-set? At this price a basic manual has become unavailable to those for whom it was intended and who need it most, the peoples of India, Ceylon, Burma, and their neighbours. A standard work has thus become a collector's item, and it would not be surprising if a cheap pirate-edition would appear.—J.F. Veldkamp.
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Kew Bull. 30 (1975) 215-221.
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(1975) 299-309, 3 fig.
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- *Prototypic organisms. XIII. Tropical trees. "Thick twig, big leaf"*. *Theoria to Theory* 9 (1975) 33-43.
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Survey of the morphology of the groups and descr. of sections; phylogeny and relations with African genera of sect. Bleekrodea and the species of Madagascar; 8 parallel lines of phylogeny in *Streblus* of which present species are the relics. *S. malayanus* n.sp., from limestone in Kelantan.
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List of records; 1 new species of *Lindernia*.
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The Rhododendron (Aust. Rhod. Soc.) 14 (1975) 6-12, 1 fig.
Observations on *Rhododendron* during ascent of Mt. Dayman (East New Guinea), July 1974.
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- * CURTIS, W.M. *The endemic Flora of Tasmania. With paintings by Margaret Stones. Part V*. Ariel Press London (1975) pp. 309-383, col. pl. 159-199; folio.
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Lycopersicon, Solanum, Lycianthes, Cyphomandra; key to 30 species.
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Species list, with full synonymy, with indication of type localities and actual types. No novelties.
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— Reviewed on page 2621.
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Claim that 4 spp. of *Nothofagus* described occur in Eocene and Oligocene in the Mexican Gulf area and the NW. Pacific coast. A most interesting addition which, if identification is properly made - checked by *Nothofagus* pollen specialists - would necessitate substantial change in our assumptions about the origin and spread of the genus. Hitherto all supposed finds on the northern hemisphere were found erroneous.
- ESSIG, F. B. *A new species of Ptychosperma* (Palm.) *Principes* 19 (1975) 75, 1 fig. — From Papua.

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100-103, 1 fig.
2 species described, both from New Guinea.
- *EVERIST, S.L. (ed.) Annual Report Queensland Herbarium for
1973/74, 24 pp.
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mention of several new records for Queensland and Aus-
tralia on p.12 and p.14 respectively.
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Sinensium*. Act. Phytotax. Sin. 13 (1975) 83-89, 2 pl.
Key; incl. n.sp. and n.var.; in Chinese.
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taxonomy of Cocculus* (Menisp.) Kew Bull. 29 (1974) 483-
492, 2 fig., 6 pl., 1 tab..
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- FLENLEY, J.R. *Evidence of quaternary vegetational change in
New Guinea*. In P. & M. Ashton (ed.), *The quaternary era
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109-120).
Two sites at 2500 m in Wabag region, Central Highlands,
were studied, where forest between 12000 and 8500 years
ago was replaced by alpine herbs. The cause might be a
lowering of the timber line by 550 m due to glaciation.
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deen-Hull Symp. on Malesian ecology; Dept. of Geography
Univ. Hull, England (1974) 109 pp. mimeogr. Price low.
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on Mt. Kinabalu; climate on Mt. Wilhelm; and (outstand-
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there.
- *FLETCHER, H.R. *A quest of flowers. The plant explorations of
Frank Ludlow and George Sherriff told from their dia-
ries and other occasional writings* (1975) — Reviewed
on page 2622.
- FOREMAN, D.B. *Notes on Myristica Gronov. in Papuaasia* (Myrist.)
Contr. Herb. Aust. no.9 (1974) 35-43, 2 fig.
Critical notes on 9 species; 1 new sp.; key to varie-
ties of *M. fatua* in Papuaasia.
- *A new species of Horsfieldia Willd. from Papuaasia*
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Surface patterns of endocarps of 7 species; tentative key on this character.
- *The tribe Triclisieae Diels in Asia, the Pacific and Australia. The Menispermaceae of Malesia and adjacent areas. VIII.* Kew Bull. 30 (1975) 77-100.
Revision of 8 genera; many changes in *Albertisia* by extending its range to Africa; key to 5 Mal. species.
- FOSBERG, F.R. *Typification and author citation of Merremia tridentata ssp. hastata van Ooststroom* (Convolv.) Taxon 24 (1975) 541.
- & M.V.C.FALANRUW, *Noteworthy Micronesian Plants. I.* Micronesica 11 (1975) 77-80.
Various new records, partly aliens.
- & D.HERBST, *Rare and endangered species of Hawaiian vascular plants.* Allertonia 1 (1) (1975) 1-72.
A sad list with not less than 273 taxa extinct and 800 endangered.
- & M.-H.SACHET, *Plants of Southeastern Polynesia. 3.* Micronesica 10 (1974) 251-256.
3 taxa of *Alyxia*; *Ochrosia* versus *Neiosperma*.
- & ----- *Flora of Micronesia. 2. Casuarinaceae, Piperaceae, and Myricaceae.* Smithsonian Contr.Bot. no.24 (1975) 1-28, 1 map.
- FRIEDBERG, C. *Rapport sur une mission ethnobotanique en Indonésie.* J.Agric.Trop.Ethnobot.Appl. 21 (1974) 151-154.
Mostly Timor, some Celebes.
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Census; synonymy, and key to the genera.
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- FU, KUN-TSUN, *On the genus Libanotis Crantz. from Tsingling Range* (Umbell.) Act.Phytotax.Sin. 13 (1975) 57-61, 1 pl.
Key to 4 species (2 new).

- FUKUOKA, N. *The Caprifoliaceae of the Ryukyu Islands*. Mem. Nat. Sci. Mus. Tokyo no. 7 (1974) 103-107.
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Indonesian report on expedition to SE. Borneo.
- GANESH MANI PRADHAN, *Pleiones of North India* (Orch.) Amer. Orch. Soc. Bull. 44 (1975) 414-421, 4 col. phot.
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The Asiatic-Malesian *Polystachya flavescens* occurs also in the New World, already described by Jacquin (1760) as *Epidendrum concretum* and in Africa. It should hence be called *P. concreta* (Jacq.) Garay & Sweet. There is a formidable synonymy. A remarkable instance of a tropical ubiquitous orchid.
- GAUSSEN, H. *Les Gymnospermes actuelles et fossiles. Fasc. XIII. Chap. XIX. Les Podocarpaceae, sauf les Podocarpaceae, pp. 1-34. Chap. XX. Les Podocarpaceae autres que Podocarpus ss., pp. 1-174.* Trav. Lab. For. Toulouse t. II, sec. 1, vol. I, partie II 3 1974, illustrated.
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- GHAZANFAR, S. *Araliaceae*. Flora West Pakistan no. 86 (April 1975) 1-5, 1 fig.
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Attack on the problem of 'random' variation in leaf shape of this Laur. of North America. Biometry revealed that lobed leaves predominate on the gravitationally lowermost 3/8 of branches. It is not a matter of juvenile or mature foliage, but speculation is presented that starch-grains by impeding circulation of fluids influence growth on the lower sides. Interesting paper.
—M.J.

- GILLETT, G.W. *Lenbrassia* (Gesneriaceae). A new genus endemic to North Queensland. J. Arn. Arb. 55 (1974) 431-434, 1 fig.
Removes the Queensland Coronanthera to a new monotypic genus; closely allied to Fieldia from SE. Australia.
- *New records for Cyrtandra in the New Hebrides* (Gesner.) Kew Bull. 29 (1974) 699-709, 4 fig.
- *Cyrtandra in the Bismarck Archipelago and Solomon Islands* (Gesner.) Kew Bull. 30 (1975) 371-412, 7 fig., 4 maps.
24 species keyed out (17 new).
- GILLIS, W.T. *Poison-ivy and its kin* (Anacard.) Arnoldia 35 (1975) 93-123, 21 fig. & map.
- GIVEN, D.R. *Damnamenta* gen. nov. A new subantarctic genus allied to *Celmisia* Cass. (Astereae-Compos.). New Zeal. J. Bot. 11 (1973) 785-796, 4 fig., 1 tab.
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- GOVINDARAJALU, E. *Studies in Cyperaceae. X. Novelties in Cyperus subgen. Pycrus* (Beauv.) C.B. Clarke. J. Indian Bot. Soc. 52 (1973) 72-81, 3 fig.
3 new species of *Cyperus*; key to species of sect. *Flavescentes* and *Muricati*.
- GRANT, M.L., F.R. FOSBERG & H.M. SMITH, *Partial Flora of the Society Islands: Ericaceae to Apocynaceae*. Smithsonian Contr. Bot. no. 17 (1974) 1-85, 3 tab.
Keys to species; history of exploration.
- GRAY, M. *Miscellaneous notes on Australian plants: Erigeron, Uncinia, Poa and Erythranthera*. Contr. Herb. Aust. no. 6 (1974) 1-5.
One new comb. in *Erigeron* and 4 records.
- GRIERSON, A.J.C. *Critical notes on the Compositae of Ceylon*. Ceyl. J. Sc. Biol. Sc. 10 (1972) 42-60, 6 fig.
Miscellany of critical precursory notes; some new names in *Vernonia*; key to 4 spp. of *Adenostema*; suggested reduction of *Microglossa* to *Psiadia*; key to 3 spp. of *Gnaphalium*; key to 3 spp. of *Spilanthes*; ditto to *Sonchus*, *Bidens*, and *Launaea*.
- *Ditto. II*. Ceyl. J. Sc. Biol. Sc. 11 (1974) 12-22, 1 pl.
Including some new species and new combinations.
- GROHMANN, F. *Oleaceae*. Flora West Pakistan no. 59 (1974) 1-27, 4 fig.

- GRUSHVITZKY, I.V. & N.T. SKVORTSOVA, *New for the North Vietnam Flora species of the genus Schefflera Forst. et Forst. f. from the section Octophyllae Jseong et Hoo and some problems of their biology* (Aral.) Bot. J. U.S.S.R. 60 (1975) 1434-1445, 6 fig.
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- GUPTA, H.P. *History of fossil Leguminosae in India*. Geophytology 5 (1975) 1-9, 1 map, 1 tab. Subfossil from early cultivation; and really fossil domestication dates from 2500 BC (Pisum).
- GUPTA, R.C. & L.D. KAPOOR, *Pharmacognostical studies on Jivanti. II. Leptadenia reticulata Wight & Arn. (syn. Gymnema aurantiacum Wall. ex Hook. f. and Asclepias tuberosa Roxb. (Asclep.)* Bull. Bot. Surv. India 13 (1973) 53-63, 24 fig., 3 tab.
- * GUPTA, R.K. *Flora Nainitalensis. A hand book of the flowering plants of Nainital*. Navayug Traders Publ. New Delhi (1968) xxix + 489 pp., illust. A full, local flora, with keys to families, genera and species, of the vicinity of Nainital, on the outer hills of the Kumaon Himalayas, the summer capital of Uttar Pradesh.
- GUTIERREZ, H.G. *Tricyrtis imeldae, a new Philippine lily*. Philip. J. Sc. 103 (1974) 171-173, 1 fig. Sino-Japanese genus new to Malesia.
- HALL, J.B. *A new species of Bowringia from Ghana* (Legum.) Kew Bull. 29 (1974) 497-498. Key to 4 species of Bowringia.
- HARA, H. *The identity of Clematis terniflora DC.* (Ranunc.) J. Jap. Bot. 50 (1975) 155-158, 1 fig. Sino-Japanese species; synonymy.
- *The status of the genus Oligobotrya* (Liliac.) J. Jap. Bot. 50 (1975) 225-227, 1 fig. Reduced to Smilacina; new comb.
- *New or noteworthy flowering plants from Eastern Himalaya (16)*. J. Jap. Bot. 50 (1975) 263-271. Several new or critical species.
- HARTLEY, T.G. *A revision of the genus Acronychia* (Rutac.) J. Arn. Arb. 55 (1974) 469-523, 12 fig., 7 maps. First instalment of important revision. Key to allied genera; key to 42 species.

- *A revision of the genus Acronychia. II* (Rutac.) J.Arn. Arb. 55 (1974) 525-567, 1 tab., map 8-9, fig. 14-20.
- *The taxonomic status of the genus Bauerella* (Rutac.) J. Arn.Arb. 56 (1975) 164-170, 1 fig.
Reinstatement of *Bauerella* as distinct from *Acronychia*; Australia and New Caledonia; 2 new comb.
- *A new species of Zanthoxylum from New Guinea* (Rutac.) J.Arn.Arb. 56 (1975) 369-373, 1 fig., 1 map.
Z. novoguineense, descr.; key.
- & B.P.M.HYLAND, *Additional notes on the genus Flindersia* (Rutac.) J.Arn.Arb. 56 (1975) 243-247, 1 fig., 1 tab.
New species from Queensland.
- HATTINK, T.A. *A revision of Malesian Caesalpinia, including Mezoneuron* (Legum.-Caesalp.). *Reinwardtia* 9 (1974) 1-69, 9 fig. & maps.
Mezoneuron and *Wagatea* reduced to *Caesalpinia*; key to 21 species (1 new, with opposite leaves from Borneo, a 2nd from the Solomon Is.); some new comb.; ident. list.
- HEINE, H. *Tropical African Plants XXIX. Mitreola petiolata* (J.F.Gmel.) Torrey & Gray, an indigenous species in west Tropical Africa (Logan.) *Kew Bull.* 23 (1969) 251-252.
- HEISER Jr, C.B. *Variation in the Bottle gourd*. In B.J.Meggers e.a. (ed.), *Tropical forest ecosystems ...* (1973) 121-128, 5 fig.
Lagenaria siceraria (Cucurb.) is cultivated in SE.Asia and elsewhere, but seems wild in Africa, where all other *Lagenaria* species are wild, and variation is greatest; diagrams given. On p.127 is proposed *L. siceraria* ssp. *asiatica* (Kobiakova) Heiser, nov. comb. (basionym *L. vulgaris* ssp. *asiatica* Kobiakova); also ssp. *siceraria* is proposed, both briefly described. Such novelties should never have been admitted in this non-taxonomic book. Otherwise the paper is sketchy.— M.J.
- HENDERSON, R.J.F. *Solanum nigrum L. and related species in Australia* (Solan.) *Contr.Queensl.Herb.* 16 (1974) 1-78, 7 pl., 6 maps.
Key to 11 species, native sections naturalized, several of which also certainly occur in Malesia; chromosomes (2n=24, 48, 72). All species principally self-pollinating. Crossing experiments. Pollen fertility and sterility observed. Some species cannot be crossed.

- HENRY, A.N. & K.SUBRAMANYAM, *Memecylon hookeri* Thw. (*Melastomataceae*). A new record for India. Bull.Bot.Surv.India 13 (1973) 165, 1 fig.
- *HERKLOTS, G.A.C. *Vegetables in South-East Asia*. G.Allen & Unwin London (1972) xii + 525 pp., 159 fig.
In 1941 the author published the 1st ed. of Vegetable cultivation in Hong Kong; the 2nd ed. in 1947, focussed on Hong Kong. This newer, most welcome and well-written book covers a much wider field, with emphasis on eastern vegetables. In various groups it goes into considerable detail. It meets also practical application, and information on food and vitamin value.
- *HO, PHAM-HÀNG, *An Illustrated Flora of South Vietnam, vol.1 & vol.2* (1970/1972) — Reviewed on page 2625.
- *l'Inventaire de la flore au Sud Vietnam*. Pac.Sc.Assoc. Symp.Cipayung Aug.1971 (1973) 1-3.
General; records of novelties casually mentioned.
- HOLMES, W.C. & S.McDANIEL, *Notes on Mikania* (Comp.) Phytologia 31 (1975) 273-278.
Typification of *M. cordata*; this is accepted as the Indo-Malesian species. The African variety is raised to specific rank; 3 new American species. No key.
- HOLTTUM, R.E. *A new bamboo from Mt. Kinabalu*. Gard.Bull.Sing. 26 (1973) 211.
Racemobambos tessellata Holttum.
- *A commentary on comparative morphology in Zingiberaceae*. Gard.Bull.Sing. 27 (1974) 155-165, 1 fig.
Important discussion of morphologic and generic delimitation.
- *A new species of Racemobambos from New Guinea* (Gram.) *Adansonia sér.* 2, 15 (1975) 95-97, 1 pl.
Mt. Carstensz, coll. Raynal during King Leopold III Expedition to West Irian in 1973.
- HONG, DE-YUANG, *Revisio Commelinacearum sinicarum*. Act.Phytotax.Sin. 12 (1974) 459-488, 5 pl.
Keys to genera and species (in Chinese), several new species and combinations.
- HOOGERWERF, A. *Report on a visit to wildlife reserves in East Java, Indonesia (Aug.-Nov. 1971)*. Meded.Ned.Comm.Int. Natuurbesch. no.21 (1974) 1-51, 32 phot.
Aspects of flora and wildlife conservation in the Baluran, Ijang, Blambangan-Purwo, and Meru-Betiri nature parks. Influence of fire, management, field observations, especially on game. With Indonesian summaries.

- HOOIJER, D.A. *Quaternary mammals West and East of Wallace's line*. In G.J. Bartstra & W.A. Casparie, *Modern quaternary research in Southeast Asia* (1975) 37-46, 9 fig.
Mainly on Stegodonts, not elephants but a group on themselves related to mammoths. Fossils were found in S. Celebes, Flores and Timor, called Stegoland by the author, who postulates land bridges between the three parts; these were not used, however, by other big mammals, for postulated reasons.—M.J.
- HOSOKAWA, T. *On the tropical rainforest conservation to be proposed in Micronesia*. Pac.Sc.Assoc. Symp. Cipayung Aug. 1971 (1973) 150-164.
- HOU, DING, *A new species of Euonymus from Australia* (Celastr.) *Blumea* 22 (1975) 271-274, 1 fig.
- HSIAO, PEI-K'EN c.s. *Study on the medicinal plant resources of Berberis in China, including their taxonomy, distribution and evaluation medicinal* (Berb.) *Act. Phytotax. Sin.* 12 (1974) 383-406, 12 fig., 2 pl.
Census; keys to sections and species (in Chinese); species enumerated (some new).
- HSU, HSIANG-HAO, *Two new species of Sterculiaceae from China*. *Act. Phytotax. Sin.* 13 (1975) 107-110, 2 fig.
New *Craigia* and *Reevesia*. In Chinese.
- HSU, PING-SHENG, *Notes on genus Viburnum of China* (Caprif.) *Act. Phytotax. Sin.* 13 (1975) 111-129, 1 fig.
Listed species; some new varieties and a new section.
- HU, SHIU-YING, *The Orchidaceae of China. VII-VIII*. *Quart. J. Taiwan Mus.* 27 (1974) 155-189, 17 fig.; 419-467, 24 fig.
- HUANG, TSENG-CHIENG & JIUNN-TZONG WU, *A revision of Formosan Salvia* (Labiata.) *Taiwania* 20 (1975) 213-228, 8 pl.
Key to 8 species.
- HUGUENIN, B. *La végétation des Iles Gambier - Relevé botanique des espèces introduites*. *Cah. du Pacif.* 2 (1974) 459-471.
Species list, 229 spp.; 200 introduced in Mangareva I., atoll, W. Micronesia, 23°08'S 134°55'30" W.
- HUNT, D.R. *Rhododendron aequabile* (Eric.) *Curtis Bot. Mag. n.s.* 180 (1974) tab. 673.
A possible hybrid, endemic in Sumatra.
- *Rhododendron zoelleri* (Eric.) *Curtis Bot. Mag. n.s.* 180 (1975) tab. 682.
- *Tecomanthe venusta* (Bignon.) *Curtis Bot. Mag. n.s.* 180 (1975) tab. 693. — Native of New Guinea.

- HUSAIN, S.A. & S.R. BAQUAR, *Biosystematic studies in the genus Abutilon from Pakistan. I. Taxonomy* (Malvac.) *Phyton*, Austria 15 (1974) 219-234, 3 fig., 1 pl.
Key to Pakistan species.
- HYNES, R.A. *Altitudinal zonation in New Guinea Nothofagus forests*. In J.R. Flenley (ed.), *Trans. 3rd Aberdeen-Hull Symp. on Malesian ecology* (1974) 75-109, 13 fig.
Nothofagus forest reflects variation in topography, and is modified by soil, climate, time, and man. The main zone is 1200-2600 m. Vertical and horizontal ranges of all 13 species are given in detail. An analysis is presented of correlations between canopy, crowns, ground cover, leaf-shape and size, bark, and life forms, together on 48 points, in Nothofagus forest at 13 sites, all above 2100 m, described and compared under consideration of physical conditions and associated species. The matter is too complex for simple conclusions. Geological recency, appearance of Nothofagus in Upper Miocene, climate changes in past 30,000 years, apparent past efficiency in dispersal, are important factors, so is gap invasion, and vertical movement of vegetation and flora. The genus seems to survive well on poorer, more exposed sites. Wind dispersal, notwithstanding poor adaptation, is a factor to reckon with, and storms can do much.—M.J.
- IDRIS, S. *Amorphophallus titanum* Becc. (*Bunga Bangkai*) (Arac.) *Bul. Kebun Raya* 1 (3) (1974) 7-10, 2 fig., 1 phot.
In Indonesian. Some data; summary.
- IQBAL DAR, M. *Lythraceae*. *Flora West Pakistan* no. 78 (1975) 14 pp., 2 fig.
Key to species of 6 genera.
- * IUCN, *The use of ecological guidelines for development in the Tropical Forest areas of South East Asia* (1975) — Reviewed on page 2646.
- JACOBS, M. *Specialized botanical collecting at low altitude in Papua New Guinea*. *WOTRO-Jaarb.* 1974, *Reports on Research Projects* (1975) 35-37, 4 phot.
Brief report of expedition to Mt. Bosavi and some other places, especially for fruits and lianas.
- *A Gunung Leuser Field Station, North Sumatra. Argued need for a field station and its scope and requirements*. *Rijksherbarium Leiden* (1975) 9 pp. mimeographed.
- JAFRI, S.M.H. & S. QAISER, *Myrsinaceae*. *Flora West Pakistan* no. 89 (Aug. 1975) 1-8, 2 fig.

- JAIN, K.K. *A taxonomic revision of the Himalayan firs*. Indian For. 101 (1975) 199-204, 5 fig., 1 tab.
Discussion of *Abies* and a hybrid.
- JAIN, S.K. *The genus Arthraxon P.Beauv. (Poaceae) in India*. J. Indian Bot.Soc. 51 (1972) 165-183, 23 fig. (1975).
Revision, with key to species and varieties.
- , K.HEMADRI & U.R.DESHPANDE, *Arthraxon raizadae Jain, Hemadri et Deshpande, a new grass from India (Gram.)* J. Indian Bot.Soc. 51 (1972) 103-106, 13 fig. (1975).
- & D.C.PAL, *A new species and notes on the genus Anthoxanthum L. (Poaceae)*. J.Bomb.Nat.Hist.Soc. 72 (1975) 90-96, 3 fig.
Key; 1 new species from India.
- JANARDHANAN, K.P. & R.PRASAD, *Ludwigia hyssopifolia (G.Don) Exell. A new record for the Upper Gangetic Plain and Rajasthan (Onagr.)* Bull.Bot.Surv.India 13 (1973) 160.
- & ----- *On the occurrence of Zizyphus glaberrima Sant. in Northern India (Rhamn.)* J.Bomb.Nat.Hist.Soc. 71 (1974) 344.
- JANZEN, D.H. *Tropical agroecosystems. These habitats are misunderstood by the temperate zones, mismanaged by the tropics*. Science 182 (21-xii-1973) 1212-1219.
A realistic appraisal of the situation, documented by 108 references. "The tropics need a realistic set of expectations".—M.J.
- *Tropical blackwater rivers, animals, and mast fruiting by the Dipterocarpaceae* (1974) — Reviewed on page 2626.
- JEFFREY, C. *Olearia megalophylla (Comp.)* Curtis Bot.Mag. n.s. 180 (1974) tab. 665.
From SE. Australia.
- JENNY, R. *Coelogyne mayeriana (Orch.)* Die Orchidee 26 (1975) 82, 2 fig.
A Malayan species.
- JÉRÉMIE, J. *A propos du genre Tarenna (Rubiaceae-Gardeniae) en Nouvelle-Calédonie*. Adansonia sér.2, 14 (1974) 473-480, 4 maps, 1 fig., 1 tab.
Key to 8 species; 1 new species, 4 new comb., because *Chomelia* Jacq. reduced to *Tarenna*.
- JOHNSON, C.G. & J.BOWDEN, *Problems related to the transoceanic transport of insects, especially between the Amazon and Congo areas*. In B.J.Meggers e.a. (ed.), *Tropical forest ecosystems ...* (1973) 207-222, 5 fig.

Wind patterns are examined, and many records given of butterflies, aphids, thrips, white flies, ants, some flying actively and mass-migrating. Extensive discussion; claiming to be the first of its kind.—M.J.

JOHNSON, L.A.S. & B.G. BRIGGS, *On the Proteaceae. The evolution and classification of a southern family.* Bot. J. Linn. Soc. 70 (1975) 83-182, 5 fig., 6 tab.

----- & D.J. MCGILLIVRAY, *Conospermum Sm. in eastern Australia* (Proteac.) Telopea 1 (1975) 58-65, 1 map, 1 pl.
Key to 7 species; 1 sp. nov., 1 subsp. nov., 1 comb. et stat. nov.

JOHNSTON, F.D. *Dendrochilum cobbianum* (syn. *Platyclinis cobbiana*) (Orch.) Amer. Orch. Soc. Bull. 44 (1975) 330-331, 1 phot.
Popular.

JONES, H.G. *Orchidaceae novae vel minus cognitae.* Reinwardtia 9 (1974) 71-75.
New Cymbidium from India; critical notes on 1 Malesian and 2 American species.

KANDELER, R. & B. HÜGEL, *Wiederentdeckung der echten Lemna perpusilla Torr. und Vergleich mit L. paucicostata Hegelm.* (Lemnac.) Plant Syst. Evol. 123 (1974) 83-96, 5 Abb.
Would be distinguishable by the structure and shape of fruit and seed; mostly taken as synonymous (also in Flora Malesiana i 7).

KAO, MUH-TSUEN & CH. E. DEVOL, *The Campanulaceae of Taiwan.* Taiwania 19 (1974) 123-147, 14 pl.
Key to genera and species; descr.; Campanumaea and Codonopsis kept separate as is Pratia; no reference to Flora Malesiana.

KAO, TSO-CHING & CHING-YUNG CHENG, *Synopsis of the Chinese Rheum* (Polygon.) Act. Phytotax. Sin. 13 (1975) 69-82, 4 fig.
4 new species, 2 new var.; key. In Chinese.

KAZMI, S.M.A. *Plantaginaceae.* Flora West Pakistan no. 62 (April 1974) 1-21, 3 fig.
Key to 20 species.

KEIGHERY, G.J. *Chromosome numbers in the Gyrostemonaceae Endl. and the Phytolaccaceae Lindl.: a comparison.* Aust. J. Bot. 23 (1975) 335-338, 2 tab.
x=14, differing from Phytolaccaceae sens. str. where x=9; deserving therefore family status.

- KENG, H. *Annotated list of seed plants of Singapore. I.* Gard. Bull.Sing. 26 (1973) 233-237.
Cycad., Podocarp. and other conifers; Gnetac.
- *Ditto. II.* Gard.Bull.Sing. 27 (1974) 67-83.
Generic keys; species listed.
- *Rediscovery of Cheilotheca malayana and the identity of Cheilotheca, Andresia and Monotropastrum (Ericaceae-Monotropoideae).* Reinwardtia 9 (1974) 77-83, 2 pl.
All reduced to Cheilotheca; key to 4 species, some new comb.
- *How many vascular plants are there in W. Malaysia and Singapore?* Mal.Nat.J. 28 (1974) 26-30, 4 tab.
Statistics; estimate 8507 (+ 500).
- *Magnoliaceae.* Flora of Thailand 2 (3) (1975) 251-267, fig. 38-44.
- & E.A.HEASLETT, *The Xylopia malayana fruit: significance of its dehiscence* (Annon.) Gard.Bull.Sing. 26 (1973) 223-225, 1 fig., 1 pl.
- KENG, YI-LI & SHOU-LIANG CHEN, *Material of Chinese Gramineae - Apocypis Nees.* Act.Phytotax.Sin. 13 (1975) 56-63, 2 pl.
Key to species (2 new). In Chinese.
- KERR, A.D. *Orchids of Southeast Asia. The genus Thecostele.* Amer.Orch.Soc.Bull. 44 (1975) 24-26, 1 fig., 2 phot.
Remarks on *T. alata* found in Laos.
- KHAN, A.M. *Palynology of neogene sediments from Papua (New Guinea) stratigraphic boundaries.* Pollen et Spores 16 (1974) 265-284, 2 maps, 3 diagr., 1 tab.
Borings in the Papua delta down to Upper Miocene; *Nothofagus brassii* type; also other mountain plants, conifers (*Microcachrys*, *Dacrycarpus*, *Microstrobis*), mangroves; supports Florin's view that these plants were wider spread than known before to Couper (1960). Flora was obviously very similar to present, also with *Casuarina* and *Eucalyptus*. The theory of Couper that *Nothofagus brassii* type shifted northwards because of the Ice Age is now redundant: they grow simultaneously in New Zealand, Australia and New Guinea. Proof of the general axiom that geological and palynological data must always be regarded as 'minimum records'. Single grains of the *fusca* type are ascribed to long-distance dispersal.
- KITAGAWA, M. *Notulae fractae ob floram Asiae orientalis* (31). J.Jap.Bot. 50 (1975) 86-88.
Various records; new variety in *Heracleum*.

- KITAMURA, S. *Short reports of Japanese Dicotyledons*. 2. Act. Phytotax. Geobot. 26 (1975) 140-143.
Some records and new varieties.
- KITZKE, E.D. & D. JOHNSON, *Commercial palm products other than oils*. Principes 19 (1975) 3-26, 18 phot.
Largely American species.
- KLOTZ, G. *Cotoneaster otto-schwarzii - eine neue Acutifolii-Sippe aus Yunnan* (Rosac.) Wiss. Ztschr. Fr. Schiller Univ. Jena, M.-N. Reihe 24 (1975) 401-402.
- KOCHUMMEN, K.M. & T.C. WHITMORE, *Notes on the systematy of Malayan Phanerogams. XVIII-XXII*. Gard. Bull. Sing. 26 (1973) 269-287.
Novelties and critical notes on Guttiferae (*Calophyllum*, *Garcinia*, *Mesua*), *Barringtonia* n.sp., *Crudia* n.sp. *Strombosia*.
- * KOMIYA, S. *Systematic studies on the Lentibulariaceae*. Dept. Biol. Nippon Dental College, Tokyo, Japan (March 1972) 124 pp., 3 tab., 26 pl. & maps; mimeographed.
Taxonomic subdivision *Utricularia*; key to Japanese species, their collections and distribution in Japan.
- KOSTER, J.TH. *The Compositae of New Guinea. IV. Additions and corrections to I, II, and III*. Blumea 22 (1975) 207-217, 2 fig.
A new alpine species of *Rhamphogyne* hitherto known only from the Mascarenes! Key to genera of *Anthemideae*; key to 3 species of *Ischnea*; some records of other species.
- KOSTERMANS, A.J.G.H. *Some new taxa*. Bot. Tidsskr. 68 (1973) 317-323, 3 phot.
Xylosterculia n.g. for two Central American *Sterculia* species; new species of *Parinari* from Thailand; *Temmodaphne thailandica* n.g. n.sp. (Laur.), but the latter already described by him earlier, see page 2278 of this Bulletin.
- *Lauracées*. Flore Nouv. Caléd. et Dépend. no.5 (1974) 1-123, 29 cartes, 24 pl., 2 fig.
Keys; descr.; also new species.
- *A monograph of the genus Neocinnamomum Liou Ho* (Laur.) *Reinwardtia* 9 (1974) 85-96, 2 fig.
Key to 6 species (one new) from N. Sumatra, 1 species removed to *Litsea*, 1 reduced.
- *Materials for a revision of Lauraceae. IV. Reinwardtia* 9 (1974) 97-115.
Various novelties, reductions and new comb. in *Litsea*, *Lindera*, *Actinodaphne*, *Persea*, *Cinnamomum* and *Phoebe*.

- *A new Bornean species of Mammea L. (Guttif.) Reinwardtia* 9 (1974) 117-118, 1 fig.
M. sinclairii n.sp.
- *Triadodaphne, a new Lauraceous genus from Borneo. Reinwardtia* 9 (1974) 119-121, 1 fig.
Monotypic n.g. n.sp.
- *A monograph of Caryodaphnopsis A. Shaw (Laur.) Reinwardtia* 9 (1974) 123-137, 3 fig.
Key to 7 species (2 new) from Asia.
- KOYAMA, H. *Blumea conspicua, as a species endemic to the Ryukyu Islands (Comp.) Mem. Nat. Sci. Mus. Tokyo no. 7* (1974) 109-113, 3 fig.
- *Notes on Pertya hossei and its allies (Comp.) Bull. Nat. Sc. Mus. Tokyo ser. B Bot.* 1 (1975) 49-58, 8 fig. & maps.
Endemic species in Thailand.
- KOYAMA, T. *The genus Fimbristylis in Ceylon (Cyper.) Bot. Mag. Tokyo* 87 (1974) 301-331, 5 fig.
Key to 32 species; 1 new subspecies.
- *Two new species of Smilax from Taiwan (Smilacaceae). Taiwania* 20 (1975) 117-122, 2 fig.
- *Smilacaceae. Flora of Thailand* 2 (1975) 211-250, fig. 29-37.
Key to 24 species of Smilax and 3 of Heterosmilax; some new comb.
- KRUKOFF, B.A. & R.C. BARNEBY, *Conspectus of species of the genus Erythrina (Legum.) Lloydia* 37 (1974) 332-459, illus.
Complete revision; 110 species recognized. Keys to subgenera, sections and species. No full descr., some new sections.
- KUANG, KO-ZEN & AN-MING LU, *De speciebus sinensibus generis Physochlainae (Solan.) Act. Phytotax. Sin.* 12 (1974) 407-413, 2 pl.
Key to 6 species of Physochlaina (2 new). In Chinese.
- KULKARNI, A.R. *Nicotiana glauca Graham. A tree tobacco in Maharashtra (Solan.) J. Bomb. Nat. Hist. Soc.* 71 (1974) 340-341.
Key to 5 species.
- KURATA, S. *Nepenthes from Borneo, Singapore and Sumatra (Nepenth.) Gard. Bull. Sing.* 26 (1973) 227-232, 1 fig., 2 pl.
13 species noted, 2 new (1 from E. Borneo, 1 from N. Sumatra).

- KUSWATA KARTAWINATA, *Grass communities on a tropical island, Oahu, Hawaii*. Pac.Sc.Assoc. Symp.Cipayung Aug.1971 (1973) 75-81.
- LAMOUREUX, C.H. *Phenology and floral biology of Monodora myristica in Bogor, Indonesia* (Annon.) Ann.Bog. 6 (1975) 1-25, 18 fig., 2 tab.
Growth of the flowers.
- LANDER, N.S. *A new Australian species of Olearia* (Comp.) *Telopea* 1 (1975) 84-86, 1 fig.
O. cordata.
- & L.A.S. JOHNSON, *Australian species of Celastrus* (Celastr.) *Telopea* 1 (1975) 33-39, 2 maps.
C. subspicatus and *C. australis* (the only Australian representatives of this genus), previously united under *C. paniculatus* by Ding Hou, are reinstated.
- LANGENHEIM, J.H. *Leguminous resin-producing trees in Africa and South America*. In B.J. Meggers e.a. (ed.), *Tropical forest ecosystems ...* (1973) 89-104, 3 maps.
All these trees are Cynometreae-Amherstieae, strongly represented in Africa-South America, weakly in Malesia. Taxonomic relationships are discussed; anatomy and resin-chemistry, too, suggest monophyletic origin. Cynometra seems of African origin. Early segregation of the continents and seed buoyancy point to long-distance dispersal.—M.J.
- LARSEN, K. *Stylidiaceae*. *Flora of Thailand* 2 (3) (1975) 274-277, fig. 45.
Key to 3 species.
- *Goodeniaceae*. *Flora of Thailand* 2 (3) (1975) 278-279.
- *Sphenocleaceae*. *Flora of Thailand* 2 (3) (1975) 280.
Why this has not been returned to Campanulaceae is not clear; since Shaw's treatment in *Flora Malesiana* it has been shown not to deserve family status.—v.St.
- & S.S. LARSEN, *A new Amorphophallus from Thailand* (Arac.) *Reinwardtia* 9 (1974) 139-142, 2 fig.
With key to 3 species of sect. *Cundarum*.
- LARSEN, S.S. *Pollen morphology of Thai species of Bauhinia* (*Caesalp.*). *Grana* 14 (1975) 114-131, 6 pl., 1 tab.
Incl. new var. from Malaya and nom.nov. from India.
Examination of pollen does not support the splitting of *Bauhinia* in many genera.
- LAUENER, L.A. *A new variety of Aconitum laciniatum from Nepal* (*Aconitum of the Himalaya III*) (Ranunc.) *J.Jap.Bot.* 50 (1975) 18.

- & G.PANIGRAHI, *A new Himalayan species of Anemone* (Ranunc.) Not.R.Bot.Gard.Edinb. 33 (1975) 491-492.
- LAVARACK, P. *Arthrochilus dockrillii: a new species of orchid from North Queensland*. Proc.R.Soc.Queensl. 86 (1975) 155-156, 1 fig.
Key to *Arthrochilus* species.
- LI, HSI-WEN, *Some changes of botanical name in Chinese Labiatae*. Act.Phytotax.Sin. 13 (1) (1975) 72-95.
Various genera; some new comb. Accepts *Rabdosia* for 'Plectranthus'. In Chinese.
- *The Rafflesiaceae in China*. Act.Phytotax.Sin. 13 (2) (1975) 79-82, 1 pl.
Sapria; 3 species of *Mitrastemon*. In Chinese.
- LIANG, CHOU-FEN, *The Aristolochiaceae of Kwangsi Flora*. Act.Phytotax.Sin. 13 (1975) 10-28, 14 fig., 5 pl.
Key; some new species. In Chinese.
- LIEN, WEN-YEN, *A preliminary study of Menispermaceous medicinal plants in China*. Act.Phytotax.Sin. 13 (1975) 32-55, 2 fig.
Synopsis; several new species. In Chinese.
- LIMANTHA, I.P. *Orchids in Indonesia: their development and prospects*. Hawaii Orch.J. 4 (1975) 13-18.
General essay; emphasis commercial.
- LIN, TSAN-PIAO, *New additions to the Orchid flora of Taiwan*. Taiwania 20 (1975) 162-164, 2 pl.
Corybas; *Bulbophyllum*.
- *----- *Native orchids of Taiwan. Vol. 1. Taiwan, R.O.C.* (1975) 271 pp., fig., col.& black/white phot.
Classification; descr. of species (in English and Chinese); index.
- LING CHÜAN, *A new species of medicinal plants in Southern Chekiang: Championella sarcorrhiza* (Acanth.) Act.Phytotax.Sin. 13 (1975) 93-94, 1 fig.
- LIPKIN, Y. *Halophila stipulacea, a review of a successful immigration* (Hydroch.) Aquatic Bot. 1 (1975) 203-215, 1 fig., 1 tab.
Obviously this seagrass, which now occurs in the Aegean Sea, came there through human action after the opening of the Suez canal, with nets and boats of fishermen, not on its own steam.
- LIU, TANG-SHUI, *The genus Abies. VII-VIII* (Conif.) Quart.J. Taiwan Mus. 27 (1974) 191-237, 469-519, maps, plates, profiles.

- LLOYD, D.G. *Breeding systems in Cotula. III. Dioecious populations. IV. Reversion from dioecy to monoecy* (Comp.) New Phytol. 74 (1975) 109-145, 14 fig., 9 tab.
- LOBREAU-CALLEN, D. & S.K. SRIVASTAVA, *Paleocene occurrence of Platea pollen in U.S.A.* (Icacin.) Pollen et Spores 16 (1974) 411-423, 3 fig., 2 pl. Southeastern U.S.A. (Alabama).
- LÖFFLER, E. *Explanatory notes to the geomorphological map of Papua New Guinea.* CSIRO Aust. Land Res. Series no. 33 (1974) 1-19, 2 fig., 20 pl., separate map. Mostly made on air-photo interpretation; altitudinal zone map; magnificent air-photographs; a most important map for explorers.
- LUDLOW, F. & W.T. STEARN, *New Himalayan and Tibetan species of Corydalis* (Papav.) Bull. Br. Mus. (Nat. Hist.) Bot. 5 (1975) 47-69, 14 fig., 15 pl. Ten new species, one with orbicular, entire leaves!
- MCGILLIVRAY, D.J. *Australian Proteaceae: new taxa and notes.* Telopea 1 (1975) 19-32, 5 pl.
- *Billardiera* Sm. and *Rhytidosporum* F. Muell. in New South Wales (Pittosp.) Telopea 1 (1975) 55-57. Key to genera in N.S.W.; key to species of *Billardiera* and *Rhytidosporum*, of the latter 2 new species descr.
- *Dodonaea* (Sapindaceae): *Taxonomic notes.* Telopea 1 (1975) 66-67. 1 sp. nov., 1 stat. nov.
- McMILLAN, C. *The Xanthium strumarium complexes in Australia* (Comp.) Aust. J. Bot. 23 (1975) 173-192, 14 fig. & map, 2 tab. Proposed new classification of 4 species (tabulated).
- MAEKAWA, F. *A species of Disperis from Iriomote Is.* (Orch.) J. Jap. Bot. 49 (1974) 307-308, 1 fig. New record of a Thai-Philippine species also in Botel Tobago.
- MAHESHWARI, J.K. & S.R. PAUL, *Occurrence of Lepidium virginicum Linn. in Netarhat Plateau (Bihar)* (Crucif.) J. Bomb. Nat. Hist. Soc. 70 (1974) 575-576, 1 pl.
- & V. SINGH, *The genus Craterostigma Hochst. in India* (Scroph.) Bull. Bot. Surv. India 13 (1973) 11-12, 9 fig., 1 pl. Monotypic.
- & ----- *The aquatic and marshland plants of Bundi District, Rajasthan.* J. Bomb. Nat. Hist. Soc. 70 (1974) 438-446, 1 tab. — Largely a list.

- MAJEED KAK, A. & G.N. JAVEID, *A new plant record for India: Bidens minima* Huds. (Comp.) *Curr.Sci.* 44 (1975) 644, 1 fig.
- MAJUMDAR, R.B. *Synoptic Flora of Kota Division (S.E. Rajasthan)* *Bull.Bot.Surv.India* 13 (1973) 105-146.
Keys to genera and species; name list; no new species.
- MALHOTRA, S.K. & S. MOORTHY, *A note on the distribution of some plants in Chandrapur District (Maharashtra State)*. *J. Bomb.Nat.Hist.Soc.* 70 (1974) 599-601.
- * MANGELSDORF, P.C. *Corn, its Origin, Evolution and Improvement*. Harvard Univ. Press Cambridge, Mass. (1974).
- * MANI, M.S. *Plant galls of India*. Macmillan Co. India Ltd. (1973) ix + 354 pp., illus.
Arranged by host plants; keys to galls.
- MANITZ, H. *Zur Lectotypisierung der Namen einiger Convolvulaceen-Gattungen*. *Feddes Rep.* 85 (1974) 629-640.
22 genera lectotypes discussed.
- MANUPUTTY, D.N. *Pterocarpus indicus* di Pulau Seram, Maluku (Legum.) *Rimba Indonesia* 17 (1973) 169-175.
Occurrence sparse. Three varieties distinguished (not taxonomically). Summary in English. Rojo not mentioned.
- * MARK, A.F. & N.M. ADAMS, *New Zealand alpine plants*. A.H. & A.W. Reed, Wellington (1973) 265 pp., illust. (most col.), map on lining papers.
- MARKGRAF, F. *Florae Malesianae Praecursores. LIV. Apocynaceae III. 9. Alstonia*. *Blumea* 22 (1974) 20-29, 1 phot.
Key to 12 species; one presumed hybrid.
- & K. HUBER, *Die Entwicklung der "Nasenfrucht" von Kopsia flavida* Bl. (Apoc.) *Bot.Jahrb.* 96 (1975) 256-269, 12 Abb.
- MASLIN, B.R. *Studies in the genus Acacia 4. A revision of the series Pulchellae* (Legum.) *Nuytsia* 1 (1975) 388-494, 33 fig., 11 maps.
Keys, descr. of 24 spp., with infraspecific taxa.
- MATHEW, B. *Daphne bholua* (Thymel.) *Curtis Bot.Mag.* n.s. 180 (1974) tab. 681.
From Eastern Himalaya.
- MAULIK, M. *Cayratia anemonifolia* (Zippel ex Miq.) Suesseng. (Vitaceae). *A new addition to the Flora of India*. *Bull. Bot.Surv.India* 13 (1973) 158-159, 1 fig.

MAUNG SOE, *Burmese species of Bauhinia* (Legum.) Union of Burma J. of Life Sci. 5 (1972) 307-317, 6 fig., 1 tab.
Key to genera and 15 species.

MAXWELL, J.F. *Vascular flora of the Sattahip area*. Thai For. Bull. Bot. no. 8 (1974) 49-87, 6 fig. & map, 1 tab.
Introduction on habitats; bare name list.

MEDWAY, Lord, *Food of a Tapir, Tapirus indicus*. Mal. Nat. J. 28 (1974) 90-93, 1 tab.
Some seeds found.

* MEGGERS, B.J. e.a. (ed.) *Tropical forest ecosystems in Africa and South America: A comparative review* (1973) — Reviewed on page 2628.

MEIJDEN, R.VAN DER, *Vinkia, a new Australian genus of tribe Myriophylleae (Haloragaceae)*. Blumea 22 (1975) 251-253, 1 fig.
Based on a peculiar, aquatic new species. In a post-script the specific epithet is changed.

MEIJER, W. *Plant geographic studies on Dipterocarpaceae in Malesia*. Ann. Mo. Bot. Gard. 61 (1974) 806-818, 8 fig. & maps.
Older mountains, partly volcanic, in Sabah: Upper Cretaceous, Miocene (ultrabasic). Fossil records from Oligocene (Muller 1964, 1970). See development in geological time.

----- *Field guide to trees of West Malesia* (1974) — Reviewed on page 2629.

MICHAEL, P.W. & J.W. VICKERY, *Two new species and a new combination in Echinochloa* (Gram.) Telopea 1 (1975) 44-48.

MILLAR, A. *Collecting in the Western District of Papua New Guinea*. Amer. Orch. Soc. Bull. 44 (1975) 485-490, 3 col. phot.
Popular report; emphasis on orchids.

MISRA, O.P. & P. JOSHI, *An enumeration of grasses of Kumaon and Garhwal Divisions and Dehra Dun District in Uttar Pradesh. Part 1*. Indian For. 100 (1974) 736-753.

MISRA, R. & K.P. SINGH, *Ecology in India - A bird's eye view*. J. Indian Bot. Soc. 50A (1971) 589-601 (1975).

MOLDENKE, H.N. *Additional notes on the Eriocaulaceae. XLVIII-XLIX*. Phytologia 29 (1974) 78-113, 193-239.
List of records incl. Asian, especially Ceylon.

----- *Notes on new and noteworthy plants. LXXXII*. Phytologia 32 (1975) 46-48. — New var. of *Clerodendrum lankawienense* in Andaman Is.

- MOLYNEUX, W.M. *A new Grevillea species from western Victoria* (Proteac.) *Muelleria* 3 (1975) 141-145, 1 fig., 1 pl.
G. microstegia sp.nov.
- MOORE Jr, H.E. *Palms in the tropical forest ecosystems of Africa and South America*. In B.J. Meggers e.a. (ed.) *Tropical forest ecosystems ...* (1973) 63-88, many maps. The role of palms in the ecosystems is surveyed together with that of animals, also successions and climates in both continents. Generic distribution is discussed and tabulated for the 15 subfamilies in N. & S. America, Africa-Arabia-Europe, Madagascar, eastern Tropics, with rather detailed maps. As to the question of origin, Africa and S. America are briefly compared in their history, and 3 possibilities examined; Malesian-centered (see A.C. Smith) is rejected for lack of primitive forms there; Laurasian, rejected for general scarcity of palms and recency of immigrations; west-Gondwanaland is accepted. S. America and Africa, while each rather poor in palms, have together 13 groups of the 15, with many primitive forms. These continents had a warm climate and separated relatively late. Immigration followed into Laurasia, then by land-bridge into N. America and along the Tethys Sea to Asia-Australia, opposite Reid & Chandler's course. An austral route may have seen some migration too. Long-distance dispersal is negligible. Fossil evidence is still needed. Many references; fine paper.—M.J.
- MUELLER-DOMBOIS, D. *Relationships between monsoon vegetation and elephants in Ceylon*. *Pac. Sc. Assoc. Symp. Cipayung* Aug. 1971 (1973) 186-192.
Impact of elephants in the two National Parks.
- MUKHERJEE, P.K. & L. CONSTANCE, *Vanasushava, an old South Indian umbellifer renamed*. *Kew Bull.* 29 (1974) 593-596, 1 fig.
Heracleum pedatum Wight distinguished as new genus.
- MULLER, J. *Palynological evidence for change in geomorphology, climate, and vegetation in the Mio-Pliocene of Malesia*. In P. & M. Ashton (ed.) *The quaternary era in Malesia* (1972).
An even climate prevailed in NW. Borneo, and mountain chains provided migration routes.—M.J.
- MURATA, G. *A list of plants collected by the Chiba University Rolwaling Himal Expedition, 1963 (2)*. *Act. Phytotax. Geobot.* 26 (1974) 77-88.
Name list; some new varieties.

- *Taxonomical Notes 11*. Act. Phytotax. Geobot. 26 (1975)
144-148, 3 fig.
New *Lecanorchis* from Japan; *Hydrocotyle javanica*.
- *Itinerary of the Botanical Trips in Thailand and Indonesia, 1971 and 1973*. Act. Phytotax. Geobot. 26 (1975)
180-188, 2 maps, 3 phot.
Java, N. Sumatra, Thailand. In Japanese.
- *A list of plants collected by the Chiba University Rowing Himal Expedition, 1963 (3)*. Act. Phytotax. Geobot. 27 (1975) 29-34.
Name list.
- & H. YUASA, *On a new Sedum from Setouchi District of Japan* (Crassul.) Act. Phytotax. Geobot. 27 (1975) 35-38,
2 fig.
- MURTHY, Y.S. & R.D. GAUR, *Floral anatomy of some species of Corchorus* (Tiliac.) J. Indian Bot. Soc. 50A (1971) 130-140, 45 fig. (1975).
- NAIK, V.N. *Some interesting species of Eriocaulon Linn. from India* (Ericoc.) J. Indian Bot. Soc. 52 (1973) 108-113, 3 fig.
Descr. 3 species.
- NAIR, N.G. *A new record of Astronia macrophylla Bl. from Great Nicobars and its phytogeographical significance* (Melast.) Curr. Sci. 43 (1974) 665-666.
Most western locality of the genus.
- NAIR, R.V. *A new species of Rotala from Palghat, Kerala*. (Lythr.) J. Bomb. Nat. Hist. Soc. 72 (1975) 56-60, 18 fig.
- NAITHANI, B.D. *A report on the occurrence of Hydrobryum griffithii (Wall.) Tulasne in Garhwal Himalaya* (Podostem.) Bull. Bot. Surv. India 13 (1973) 156.
- NASIR, E. *Alliaceae*. Flora West Pakistan no. 83 (1975) 31 pp., 10 fig.
Key to 41 species of *Allium*.
- NASIR, Y. *Hippocastanaceae*. Flora West Pakistan no. 82 (1975) 1-3, 1 fig.
- *Elaeagnaceae*. Flora West Pakistan no. 85 (1975) 1-6, 1 fig.
- NAYAR, M.P. *A review of the genus Creaghiella Stapf* (Melast.) Gard. Bull. Sing. 26 (1973) 259-261.
Key to 3 species, Borneo and Palawan. *Anerincleistus philippinensis* reduced to *Creaghiella*; 1 new species.

- *A revision of Plethiandra* (Melast.) Reinwardtia 9
(1974) 143-151.
Key to 7 species (1 new var.).
- *A review of the genus Pomatostoma Stapf* (Melast.) J.
Jap.Bot. 49 (1974) 334-336.
Revision; key to 5 species (1 new).
- *A new noteworthy Sarcopyramis from Eastern Himalayas*
(Melast.) J.Bomb.Nat.Hist.Soc. 71 (1974) 170-172, 1
fig.
- *A synopsis of the genus Perilimnastes Ridley* (Melast.)
J.Bomb.Nat.Hist.Soc. 71 (1974) 172-175, 1 fig.
Key to 2 species; 1 new species from Sarawak.
- NG, F.S.P. *The fruits, seeds and seedlings of Malayan trees*
I-XI. Mal.For. 38 (1975) 33-99, fig.
- & H.S.LOH, *Flowering-to-fruiting periods of Malaysian*
trees. Mal.For. 37 (1974) 127-132, 1 tab.
Result of two year observation to which are added ob-
servations of Medway and Holttum, 86 species in all.
All reproduce in less than 12 months, over 90% even
within 6 months. Periods are inconstant in one species
and even from one year to another.
- & H.T.TANG, *Comparative growth rates of Malaysian*
trees. Mal.For. 37 (1974) 2-23, 4 fig., 3 tab.
Seven 50 year old Dipterocarps and Intsia.
- NG SIEW YOONG, W.R.PHILIPSON & J.R.L.WALKER, *Hectorellaceae,*
a member of the Centrospermae. New Zeal.J.Bot. 13
(1975) 567-570, 2 fig.
Hectorella and Lyallia constitute this family which is
arranged in Centrospermae; study of gynoecium. Formerly
included in Caryoph. and Portulac. respectively.
- NGUYEN TIEN BAN, *Critical notes on some species of the genus*
Desmos Lour. (Annon.) Bot.J.USSR 59 (1974) 1766-1780, 6
fig.
1 n.sp., 5 n.var. in Desmos; 1 sp. transferred to Meio-
gyne; new comb. in Polyalthia (2), Oncodostigma (1);
Indochinese and Philippine species.
- *Notes on the genus Dasymaschalon* (Hook.f. et Thoms.)
Dalla Torre et Harms (Annon.) Bot.J.USSR 60 (1975) 223-
233, 3 fig.
In Russian; revision; key to 11 species; 5 new comb.
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Ban. Bot.J.USSR 60 (1975) 808-812, 3 fig., 1 tab.
Based on 2 known Indochinese-Chinese species of Poly-
althia.

- *NOOTEBOOM, H.P. *Revision of the Symplocaceae of the Old World New Caledonia excepted*. Leiden Bot. Series vol.1 (1975) 335 pp., 21 pl., 8 fig. & maps, 3 tab., 3 phot. Complete revision; palynology, chromosomes, morphology; keys; 111 species distinguished, some with several infraspecific taxa (21 new). See also page 2337 of this Bulletin.
- NUMATA, M. *Ecological interpretation of vegetational zonation of high mountains, particularly in Japan and Taiwan. Fuji-san, Results Co-op.Sci.Survey Mt.Fuji, Fuji Kyuko Co. Tokyo (Sept. 1971) 358-370, 2 fig., 5 tab.* Nice general account of the subject, with diagram of zonation on 26 mountains between 24° and 45° N. As for Taiwan, the piedmont zone is similar to that in Japan, but the higher zones are similar to those in the humid Himalayas.
- & M.MITSUDERA, *Efficient environmental factors to the growth and production of the Miscanthus sinensis grasslands in Japan. Ecological judgement of grassland condition and trend. V. Jap.J.Bot. 20 (1969) 135-151, 16 fig.* This species also in the Philippines at 800-2700 m and in Celebes.
- OHASHI, H. *Studies in the genus Campylotropis (3) (Legum.) J. Jap.Bot. 49 (1974) 329-333.*
- *A note on Hedysarum and Astragalus with reference to two Himalayan species (Legum.) J.Jap.Bot. 50 (1975) 21-24, 2 fig.* 2 new comb.
- *Zornia in Taiwan (Legum.) J.Jap.Bot. 50 (1975) 31.* 2 taxa in Taiwan.
- OHBA, H. *Notes on Himalayan Sedum. 2 (Crassul.) J.Jap.Bot. 49 (1974) 257-263, 2 fig.* 2 new species of Sedum.
- *Ditto. 3. J.Jap.Bot. 49 (1974) 321-328, 1 fig.*
- OHWI, J. & H.OHASHI, *New combinations in Japanese and Formosan Silene (Caryoph.) J.Jap.Bot. 49 (1974) 344-345.* 3 species, one with several new var.; two transfers of Melandrium species to Silene.
- OLLIER, C.D. & D.E.MACKENZIE, *Subaerial erosion of volcanic cones in the tropics. J.Trop.Geogr. 39 (1974) 63-71, 2 fig., 3 pl.* General survey of aspects; most observations from New Guinea.

- ORCHARD, A.E. *A new species of Myriophyllum from Northern Australia* (Halor.) Trans.R.Soc.S.Aust. 98 (1974) 173-177, 9 fig.
A most remarkable Callitriche-like aquatic species from northern Australia. This was also described by Van der Meijden, and by him distinguished as a new genus; see entry on page 2704.—v.St.
- OZA, G.M. *Botanical identity of 'Century Plant' in Western India*. J.Bomb.Nat.Hist.Soc. 71 (1974) 178-181, 1 phot. Critical notes on the names of Indian Agave.
- & G.SINGH, *Valerianella locusta* (Linn.) Laterrade - A new record for India (Valer.) J.Bomb.Nat.Hist.Soc. 70 (1974) 593-594.
- PANDEY, D.S. *On the occurrence of Galinsoga ciliata* (Rafin.) Blake in South India (Asteraceae). Bull.Bot.Surv.India 13 (1973) 158.
- PANGGABEAN, G. *Sekilas uraian mengenai durian (Durio spp.)*. A short note on durian (Bombac.) Bul.Kebun Raya 2 (1975) 31-34.
- PANIGRAHI, G. *Tragus roxburghii* sp.nov. proposed for *T. biflorus* auctt. (Gram.) Kew Bull. 29 (1974) 495-496.
New status of an Indian species.
- *Notes on Polygala from India* (Polyg.) Kew Bull. 29 (1974) 655-657, 1 fig.
2 reductions; 1 new species.
- *A note on Euphorbia heyneana* (Euph.) Kew Bull. 29 (1974) 695-697.
Synonymy; 3 varieties keyed out, one in Java under the name *E. orbiculata* Miq.
- *Notes on certain taxa of the Commelinaceae of Asia*. Phytologia 29 (1975) 337-338.
5 new comb. through recognition of the genera Dictyospermum and Tricarpelema.
- & J.J.WOOD, *A new species of Listera from Asia* (Orch.) Kew Bull. 29 (1974) 731-733, 1 fig.
- PAIJMANS, K. *Explanatory notes to the vegetation map of Papua New Guinea* (1975) — Reviewed on page 2631.
- PEDLEY, L. *Revision of the extra-Australian species of Acacia subg. Heterophyllum* (Legum.) Contr.Queensl.Herb. no.18 (1975) 1-24.
Key to 18 spp. of phyllodine species, going as far as Hawaii and Formosa; 9 occur in Malesia (native), largely in Lesser Sunda Is. & S.Moluccas, one in Luzon.

- PENNINGTON, T.D. & B.T. STYLES, *A generic monograph of the Meliaceae*. *Blumea* 22 (1975) 419-540, 18 pl. — Reviewed on page 2632.
- PERCIVAL, M. & J.S. WOMERSLEY, *Floristics and ecology of the mangrove vegetation of Papua and New Guinea* (1975) — Reviewed on page 2634.
- PHENGKLAI, C. *Podocarpaceae*. *Flora of Thailand* 2 (3) (1975) 197-204, 22 fig.
- *Gnetaceae*. *Flora of Thailand* 2 (3) (1975) 204-210, fig. 23-28.
Key to 8 species.
- PHILIPSON, M.N. & W.R. PHILIPSON, *A new species of Rhododendron from Yunnan* (*Eric.*) *Not.R.Bot.Gard.Edinb.* 33 (1975) 493-494.
- & ----- *A revision of Rhododendron section Lapponicum* (*Eric.*) *Not.R.Bot.Gard.Edinb.* 34 (1975) 1-71, 10 fig. & maps, 2 pl.
Key to 26 species; discussion anatomic characters.
- PHILIPSON, W.R. *Shoot differentiation in the Araliaceae of New Zealand*. *J.Indian Bot.Soc.* 50A (1971) 188-195, 5 fig. (1975).
- PHUNG TRUNG NGAN, *Natural products of the lowland forests in the Republic of Vietnam*. *Pac.Sc.Assoc.Symp.Cipayung* Aug. 1971 (1973) 231-237.
- PLEDGE, D.H. *Some observations on Hydatella inconspicua* (*Cheesem.*) *Cheesem. (Centrolepidaceae)*. *New Zeal.J.Bot.* 12 (1974) 559-561, 1 map.
- POLAK, B. *Character and occurrence of peat deposits in the Malaysian tropics*. In G.J. Bartstra & W.A. Casparie, *Modern quaternary research in Southeast Asia* (1975) 71-80, 2 maps & phot.
Estimated area 160,000 sq.km; climate everwet. Origin recent, due to post-glaciation sea level rise; species recruited from dryland rainforest. Chemical analyses of peat are given. Results of agricultural efforts and experiments since 1924 have been negative, fertilizing is expensive and unsatisfactory. Better to leave the peat swamp forests as they are.—M.J.
- PRANA, M.S. & G. RANTEN, *Sekilas tentang Anggerik Rawa (Vanda hookeriana Rchb.f.)*. *A short note on Vanda hookeriana Rchb.f.* (*Orch.*) *Bul.Kebun Raya* 2 (1975) 61-65, 2 pl.

- PUNT, W. *Pollen morphology of the Dichapetalaceae with special reference to evolutionary trends and mutual relationships of pollen types*. Rev. Palaeobot. & Palyn. 19 (1975) 1-97; 20 pl., 4 fig. & maps.
- *PURSEGLOVE, J.W. *Tropical crops / Monocotyledons* (1974) —
Reviewed on page 2635.
- RADCLIFFE-SMITH, A. *The taxonomic position of Euphorbia petiolata and the reduction of E. postii* (Euph.) Kew Bull. 29 (1974) 503-505.
Occurs also in Pakistan.
- RAMAMURTHY, K. *A new genus of Acanthaceae from Kerala State, South India*. Bull. Bot. Surv. India 13 (1973) 153-155, 2 fig.
Kanjaram palghatense n.g. n.sp.
- RAMANATHAN, K.R. & K. RAMACHANDRAN, *On the occurrence of Ruta chalepensis Linn. in India* (Rutac.) J. Bomb. Nat. Hist. Soc. 70 (1973) 238-240, 1 pl.
- RAO, A.N. *Studies on growth of certain trees in Singapore*. Pac. Sc. Assoc. Symp. Cipayung Aug. 1971 (1973) 87-101, 5 fig., 1 tab.
Periodicity phenomena.
- & LEONG FONG LING, *Pollen morphology of certain tropical plants*. Reinwardtia 9 (1974) 153-176, 49 fig., 2 pl.
49 species of 46 genera (31 families).
- RAO, T.A., L.K. BANERJEE & A.K. MUKHERJEE, *A few unrecorded taxa for the Flora of Kanyakumari shore (Cape Comorin), Tamil Nadu*. J. Bomb. Nat. Hist. Soc. 71 (1974) 346-349.
Records listed.
- RAO, V.S. *The relationships of the Apostasiaceae on the basis of floral anatomy*. Bot. J. Linn. Soc. 68 (1974) 319-327, 5 fig.
Cypripedilinae must have evolved directly from Apostasiaceae. No strict opinion on family or subfamily status.
- RATHAKRISHNAN, N.C. *Notes on the distribution, taxonomy and nomenclature of some South Indian Orchids*. Bull. Bot. Surv. India 13 (1973) 1-6.
43 taxa; none new.
- RATKOWSKI, D.A. *New plant discoveries in Tasmania*. Aust. Plants 7 (1974) 384-386, 2 phot.
A New Zealand species of Pygmaea (Scroph.); 6 in New Zealand Alps, 1 on Kosciusko; n.sp. of Ixodia (Comp.); a New Zealand species of Epilobium (Onagr.).

- RATNASABAPATHY, M. *Acacia auriculaeformis* and *Casuarina equisetifolia* - The urban invaders. *Mal.Nat.J.* 28 (1974) 18-21, 4 pl.
- RAWLINGS, G.B. *Northland Notes* 3. *New Zeal.J.Bot.* 12 (1974) 563-565.
Some critical records.
- RAYNAL, J. *Notes Cypérologiques*. 22. *Les Costularia de Nouvelle-Calédonie*. *Adansonia sér.2*, 14 (1974) 337-377, 13 fig. & maps, 12 tab.
Key to 12 species (5 new); 1 new comb. in *Tricostularia*.
- *Le recensement des types de Papavéracées du Muséum de Paris: richesses et misère de l'Herbier National Français*. *Adansonia sér.2*, 15 (1975) 25-30.
In type-register pilot scheme it appears that for Papaveraceae Paris is richest in types. Total number of types is estimated at 2-300.000. Plea is made for more technical assistance.
- *Les Cypéracées des Nouvelles Hébrides. Résultats de l'expédition de la Royal Society aux Nouvelles Hébrides en 1971*. *Adansonia sér.2*, 15 (1975) 99-119.
33 species listed, no novelties; key.
- *Notes Cypérologiques*. 23. *Un nouveau Gahnia néo-calédonien*. *Adansonia sér.2*, 15 (1975) 189-191, 1 fig.
G. sinuosa n.sp.
- REMO, I.C. & G.LASERNA, *Field survey of probable allergenic grasses in the Manila area, 1970*. *Philip.J.Sc.* 101 (1972) 99-103, 1 tab.
- RHODES, D.G. *A revision of the genus Cissampelos (Menisp.)* *Phytologia* 30 (1975) 415-484, 20 fig.
World revision; key to 19 species. *C. pareira* is a remarkably wide distributed tropical ubiquist; one out of few.
- RICHARDS, P.W. *Africa, the "Odd man out"*. In B.J.Meggers e.a. (ed.) *Tropical forest ecosystems ...* (1973) 21-26.
Compared with Amazonia and Malesia the African rain forest is generally poor, the species wider-spread, and remarkably poor in certain families. Nearly everywhere there is a dry season, and human influence is old and omnipresent. Lack of regeneration in dominant trees suggests secondary growth and ecological imbalance. Past changes in climate have been great; palynology should enlighten us further.—M.J.

- RIDSDALE, C.E. *A revision of the family Leeaceae*. *Blumea* 22 (1974) 57-100, 10 fig.
Heavy reduction in species; 34 recognized, keyed out; 1 new species.
- *Notes on New Guinea Rubiaceae*. *Blumea* 22 (1975) 267-269.
Key to 3 species (2 new).
- *Tree architecture, in field and herbarium*. *Fl.Males.* Bull. no.28 (1975) 2371-2374.
- ROBERTSON, K.R. *Jacquemontia ovalifolia in Africa, North America, and the Hawaiian Islands (Convolv.)* *Ann.Mo.Bot. Gard.* 61 (1974) 502-513, 11 fig. & maps.
Key to 3 subspecies.
- ROBSON, N.K.B. *Hypericaceae*. *Fl.Malesiana I*, 8 (1974) 1-29, 21 fig. & maps.
- RODRÍGUEZ JIMÉNEZ, C. *Recherches sur Hypericum L. section Brathys (Mutis ex L.f.) Choisy sous-section Spachium Kellner (Guttiferae)*. *Mem.Soc.Cienc.Nat.La Salle* 33 (1973) 5-151, 15 fig., 3 pl., 5 tab., 2 cartes.
Key to 24 species.
- ROSS, J.H. *The naturalized and cultivated exotic Acacia species in South Africa (Legum.)* *Bothalia* 11 (1975) 463-470.
Key to 20 species, several also cultivated in Malesia.
- ROYEN, P.VAN & D.LLOYD, *The genus Cotula in New Guinea (Asteraceae)*. *Sertulum Papuanum* 21. *Blumea* 22 (1975) 197-206, 4 fig.
Key to 4 species.
- *SACHET, M.-H. & F.R.FOSBERG, *Island bibliographies Supplement. Micronesian botany, Land environment and ecology of coral atolls, Vegetation of tropical Pacific islands*. *Nat.Acad.Sci. Washington D.C.* (1971) ix + 427 pp. off-set. \$ 10.25.
The first and last supplement to the 1955 book. Number of items c. 6000, all annotated, with subject and author index, and list of journals. Well-executed. Fosberg shows up as an extremely prolific author, but why is Pacific Plant Areas 2 not mentioned?—M.J.
- SAHA, N.C. c.s. *Notes on the distribution of some grasses in India*. *Bull.Bot.Surv.India* 13 (1973) 13-15.
Ranges of 14 species.
- SAHNI, K.C. & S.S.R.BENNET, *A new species of Albizia from Andhra Pradesh (Leg.)* *Indian For.* 101 (1975) 337-338.

- & H.B.NAITHANI, *A note on the occurrence of Solanum hovei Dunal in India* (Solan.) Indian For. 101 (1975) 580-583, 1 fig.
- SAJISE, P.E. c.s. *Studies on the genus Themeda* (Gram.) Kalikasan 3 (1974) 71-82, 4 fig., 2 tab.
Key to 5 species.
- SALDANHA, C.J. *Smithsonia, a new genus from Western India* (Orch.) J.Bomb.Nat.Hist.Soc. 71 (1974) 72-75, 2 pl.
2 new comb., 1 new species; key to 3 species.
- *Three new Orchids from Southern India*. Indian For. 100 (1974) 566-572, 3 fig.
Eulophia, Oberonia, Phalaenopsis n.sp.
- *SANTAPAU, H. & A.N.HENRY, *A Dictionary of the Flowering Plants in India* (1973) — Reviewed on page 2636.
- SANTISUK, T. *Bignoniaceae*. Thai For.Bull.Bot. no.8 (1974) 1-48, 24 maps & fig.
Revision; keys; no descr. but synonymy and distr.; reductions; some new varieties.
- SASIKUMAR, B. *On the identity of Habenaria grandifloriformis Blatt. & McCann* (Orch.) Curr.Sci. 44 (1975) 277, 1 fig.
= *H. grandiflora* Lindl.
- SASTRAPRADJA, D.S. & S., S.H.AMINAH & I.LUBIS, *Species differentiation in Javanese Mucuna with particular reference to seedling morphology* (Legum.) Ann.Bog. 6 (1975) 57-68, 4 fig., 3 tab.
- SASTRAPRADJA, S. c.s. *Studies in the Javanese species of Canavalia. I. Floral biology and cytology* (Legum.) Ann.Bog. 6 (1975) 43-55, 6 fig., 3 tab.
5 species studied.
- & D.GANDAWIDJAJA, *Future utilization of Indonesian orchid germ-plasms*. Bul.Kebun Raya 2 (1975) 51-54, 2 phot.
- SAXENA, H.O. *A contribution to the Flora of Pachmarhi (Madhya Pradesh)*. Bull.Bot.Surv.India 13 (1973) 79-93.
Brief introduction; name list; no new species.
- *Further contribution to the Flora of Bailadilla (Madhya Pradesh)*. J.Bomb.Nat.Hist.Soc. 70 (1974) 586-590.
List of records.
- SAXENA, S.K. & R.K.GUPTA, *Vegetation of Pachpadra Salt Basin in Western Rajasthan*. J.Bomb.Nat.Hist.Soc. 70 (1973) 104-127, 1 map, 2 tab.
Descr. of habitats and name list.

- SCHMID, M.P.L. *Differences and similarities between the main plant formations of New Caledonia and the Southern New Hebrides*. Pac.Sc.Assoc.Symp.Cipayung Aug.1971 (1973) 146-149.
Comparison by families.
- SCHMID, R. *A resolution of the Eugenia-Syzygium controversy* (Myrtac.) Amer.J.Bot. 59 (1972) 423-436, 24 fig.
Brief history; floral anatomy of 31 taxa; list of 26 characters segregating Eugenia (mostly New World) from Syzygium (strict Old World); newly considered are bracteoles, pubescence, and pseudopedicels.
- *Floral anatomy of Myrtaceae. I*. Bot.Jahrb. 92 (1972) 433-489, 56 fig.
8 species analysed, in Syzygium s.l., in which only Acmena seems well-definable. New comb. in *S. myrtoides* (Acicalyptus M.A.Gray). Much literature. For part II see page 2290.
- *SCHWEINFURTH, U. & H.SCHWEINFURTH-MARBY, *Exploration in the eastern Himalayas and the river gorge country of south-eastern Tibet - Francis (Frank) Kingdon-Ward (1885-1958) - An annotated bibliography with a map of the area of his expeditions* (1975) — Reviewed on page 2636.
- SEALY, J.R. *William Roxburgh's collection of paintings of Indian plants*. Endeavour 34 (1975) 84-89, 9 fig.
A popular story following the same author's list in Kew Bull. 11 (1956/57) about R.'s life, Flora Indica, Carey, Plants of the Coast of Coromandel, and importance of the paintings at Kew; those of *Plumeria acuminata* (Apoc.), *Arum margaritifera*, *Nymphaea rubra*, *Eugenia malaccensis* (Myrt.) reproduced in colour, those of *Roxburghia gloriosoides* and *Flacourtia cataphracta* in black/white.—M.J.
- SEAVOY, R.E. *The origin of tropical grasslands in Kalimantan, Indonesia*. J.Trop.Geogr. 40 (1975) 48-52, 4 pl.
Shifting cultivation creates grasslands; fire-breaks around ladangs; large Imperata fields near each village; effect of hunting; grazing system Imperata and Axonopus grasses; no climatic data are given.
- SEIDENFADEN, G. *Contributions to the Orchid Flora of Thailand. VI*. Bot.Tidsskr. 70 (1975) 64-97, 22 fig.
Various new species and records; critical remarks; often relating also to the Mal. flora; a new saprophytic genus *Thaia*, possibly allied to *Neottia*; key to species of *Bulbophyllum* sect. *Epicrianthes*; key to species (5) of *Ascochilus*.

- *Orchid genera in Thailand. I-III.* Dansk Bot.Ark. 29 (1975) 1-94, 38 fig.
New revisions of *Calanthe*, *Cleisostoma* and *Coelogyne*. Beautiful illustrations; keys.
- *----- *Contributions to a revision of the Orchid flora of Cambodia, Laos and Vietnam. I. A preliminary enumeration of all orchids hitherto recorded.* Fredensborg (1975) 117 pp., 16 fig.
A basic paper on the orchid flora of peninsular SE. Asia. Excellent offset production. 758 accepted species, 398 synonyms. A few new comb. Beautiful drawings.
- SELIVANOVA-GORODKOVA, H. *Sectio nova generis Podophyllum L. (Podophyllaceae DC.).* Nov.Syst.Pl.Vasc. 12 (1975) 209-210.
New section based on *P. hexandrum* Royle.
- SEN, S. *Cytotaxonomy of Liliales.* Feddes Rep. 86 (1975) 255-305.
Disporum is Asiatic and most primitive form.
- SHAKYA, P.R. *Three new species of Acanthaceae from Nepal.* J. Jap.Bot. 50 (1975) 97-103, 4 fig.
- SHARMA, M. & O.P. SHARMA, *Monocots of Ludhiana District.* Indian For. 101 (1975) 229-237.
Name list; no novelties.
- SHAW, H.K. AIRY, *Notes on Malesian and other Asiatic Euphorbiaceae.* Kew Bull. 29 (1974) 281-331.
New species of many genera; keys to *Bocquillonia* (New Caledonia) and *Austrobuxus*; new generic records for Malesia (New Guinea): *Petalostigma*, *Fontainea*; *Hylandia* n.g. from Queensland (aff. *Loerzingia*).
- *The Euphorbiaceae of Borneo* (1975) — Reviewed on page 2637.
- SHEEHAN, T. & M. SHEEHAN, *Orchid genera, illustrated. XLVI. Haemaria.* Amer.Orch.Soc.Bull. 44 (1975) 616-617, 1 col. pl.
Descr.; ± popular.
- SHEN, KUAN-MIEN c.s. *Two new species of Ferula and their economical significances in Sinkiang (Umbell.)* Act.Phytotax.Sin. 13 (1975) 88-92, 2 fig.
- SHEN, LIAN-DAI c.s. *The genus Codonopsis Wall. in Szechuan (Campan.)* Act.Phytotax.Sin. 13 (1975) 51-68.
In Chinese; with English summary.

- SHETTY, B.V. & K.VIVEKANANTHAN, *Studies on the vascular flora of Anaimudi and the surrounding regions, Kottayam District, Kerala*. Bull.Bot.Surv.India 13 (1973) 16-42, 1 tab.
Brief introduction; ecology; name list.
- SIMPSON, M.J.A. *Senecio bifistulosus* Hook.f., a rare shrub endemic to New Zealand (Comp.) New Zeal.J.Bot. 12 (1974) 567-573, 3 fig. & map.
- SINCLAIR, J. *The genus Horsfieldia* (Myrist.) in and outside Malesia. I. *H. sabulosa* and *H. whitmorei* J.Sinclair spp. nov. Gard.Bull.Sing. 27 (1974) 133-141.
2 new species of *Horsfieldia*, 1 from N. Borneo, 1 from the Solomon Is.
- *Ditto*. II. Gard.Bull.Sing. 28 (1975) 1-181.
A full treatment of the genus, all species accounted for; no new species. No general key; several small keys for groups of allied species. Species names alphabetically arranged. A most important precursor. In appendices are added an evaluation of Rumphian Myristicaceae and an Identification list of specimens.
Warm thanks are due to Miss Chang Kiaw Lan for the impeccable effort to edit this posthumous paper.
- SINGH, D. *Structure and development of seed coat in Cucurbitaceae*. II. *Seeds of Luffa*. J.Indian Bot.Soc. 50A (1971) 208-215, 14 fig. (1975).
- SINGH, G. *On correct nomenclature of Himalayan bird cherries*. Indian For. 100 (1974) 497-498.
2 species of *Padus* discussed.
- SIOLI, H. *Recent human activities in the Brazilian Amazon region and their ecological effects*. In B.J.Meggers e.a. (ed.) *Tropical forest ecosystems ...* (1973) 321-334, 4 fig.
The main land forms are the banks of the river, várzea, fertile from regular inundation, and the terra firma or dryland, with poor soils. The history of human activities and their mentality of 'extractivism' is sketched, with its failures. Forests are being replaced by a 'ghost landscape'; the scale is not indicated. Japanese immigrants successfully introduced pepper and jute. Felisberto de Camargo in 1948 started land-use planning on an ecological basis. He suggested to use the várzea for wet rice and other quick crops and cattle; hence a big dam would be disastrous. Long-term plantations on the terra firma met with problems. Two solutions have been worked out: one to plant abandoned roça's (= la-

dangs) with Paullinia and Bertholletia with rice densely at first, the other be feeding cattle with imported fodder and improving the soil with their manure, which works far better than fertilizer.—M.J.

SIVARAJAN, V.V. & K.S. MANILAL, *A new record of Meineckia parvifolia (Wight) Webster from India* (Euph.) J. Bomb. Nat. Hist. Soc. 72 (1975) 237.

Erroneously said to be a new plant for India; based on *Peltandra parvifolia* Wight from Ceylon and India; cf. Webster, Act. Bot. Neerl. 14 (1965) 342-343. The genus is a segregate of *Phyllanthus*.

SLEUMER, H. *A concise revision of the Flacourtiaceae of New Caledonia and the Loyalty Islands*. Blumea 22 (1974) 123-147.

4 genera; many new species and combinations; keys to the genera and species.

SMITH, A.C. *Angiosperm evolution and the relationship of the Floras of Africa and America*. In B.J. Meggers e.a. (ed.) *Tropical forest ecosystems ...* (1973) 49-61, 3 maps.

It is held that the cradle of angiosperms was SE. Asia—Malesia—NE. Australia, from where Africa was populated through S. and SW. Asia, America by N and S land connections, with in the tropics some long-distance dispersal. A 'model' to this effect is given based on a sketchy discussion of Annonaceae, Monimiaceae (here considered so heterogeneous that it must be split into 6 families, yet discussed as a whole), and Proteaceae. Reference to mostly recent papers replaces facts. This coincides with a breakup (still in the press) of Thorne's 37 Ranalean families and Takhtajan's 47 into 60. Much is hypothesized, generalized, expected, evidence to the contrary is scarcely considered.—M.J.

----- *Studies of Pacific Island plants. XXX. Notes on Fijian Apocynaceae and Asclepiadaceae*. Brittonia 27 (1975) 151-164, 36 fig.

1 new species, 3 new comb.

----- *The genus Macropiper (Piper.)* Bot. J. Linn. Soc. 71 (1975) 1-38, 11 pl., 1 fig.

Key to 9 species of this split of *Piper*; only in Pacific, but possibly also in New Guinea.

----- & S.P. DARWIN, *Studies of Pacific Island plants. XXXI. Notes on Fijian Sapotaceae*. Brittonia 27 (1975) 165-171, 13 fig.

3 new species, 1 new comb.

- & J.E.HAAS, *Studies of Pacific Island plants. XXIX. Bleasdalea and related genera of Proteaceae.* Amer.J. Bot. 62 (1975) 133-147, 51 fig.
Gevuina would be restricted as a monotypic genus to South America; Sleumerodendron a monotypic genus of New Caledonia; Kermadecia with 4 spp. endemic in New Caledonia; Bleasdalea with 1 sp. in New Guinea, 1 in N. Queensland, 2 in Fiji and 1 in the New Hebrides.
- SMITH, L.S. *The genus Eremophila in Queensland with notes on the genus Myoporum (Myopor.)* Contr. Queensl. Herb. no.19 (1975) 1-49.
One of the very few manuscripts of the learned author which could be prepared for the press. Key to 21 species, none new.
- SMITH, R.M. *A preliminary review of the large bracteate species of Alpinia (Zing.)* Not.R.Bot.Gard.Edinb. 34 (1975) 149-182, 5 fig., 1 pl.
55 species listed; Eriolopha Ridl. and Adelmeria Ridl. are discussed; 2 Ceylon species of Amomum transferred to Alpinia; 2 new species described.
- SMITH, R.V. & D.J.McGILLIVRAY, *Grevillea willisii, a new Victorian species (Proteac.)* Muelleria 3 (1975) 102-111, 2 pl.
- * SMITINAND, T. *Wild flowers of Thailand.* Publ. by For. Herb., Roy. For. Dept. Bangkok (1975) 228 pp., 142 col. phot. Popular illustration of 122 mostly indigenous Thai plants. In Thai; also brief descr. in English.
- & C.PHENGKLAI, *Conditions of the lowland tropical forests in Thailand.* Pac.Sc.Assoc.Symp.Cipayung Aug.1971 (1973) 102-110.
Composition of different vegetation types in the SE. and the peninsular parts of Thailand: dryland, beach, mangrove and freshwater swamp; species listed.
- SNEDDON, B.V. *A new Clematis from North-west Nelson, New Zealand (Ranunc.)* New Zeal.J.Bot. 13 (1975) 557-565, 4 fig., 1 tab.
- SOEPADMO, E. *A short note on Amorphophallus cf. prainii Hook. f. (Arac.)* Mal.Nat.J. 25 (1973) 133-134, plate.
Descr.; plant is also cultivated in Kuala Lumpur.
- SOERIANEGARA, I. *Ecological researches relevant to current silvicultural problems.* Rimba Indonesia 17 (1972/73) 133-142, 1 tab.
In English. Ways of afforestation, reforestation and rehabilitation, with species list.

- SOEWANDA AMONG PRAWIRA, R. & I.G.M. TANTRA, *List of tree species. North Sumatra. Compilation of East Sumatra & Tapanuli*. Lembaga Penelitian Hutan Bogor, Laporan no. 171 (1973) 123 pp. mimeogr., 57 pl.
- & ----- *List of tree species. Jambi, Sumatra*. Ibid. Laporan no. 185 (1974) 26 pp. mimeogr., 29 pl.
- & ----- *List of tree species. Westcoast of Sumatra*. Ibid. Laporan no. 187 (1974) 64 pp. mimeogr., 46 pl., 1 map.
- & ----- *List of tree species. North & South Moluccas*. Ibid. Laporan no. 210 (1975) 130 pp. mimeogr., 61 pl.
- * SPARKS, B.W. *Geomorphology, 2nd ed.* (1972) — Reviewed on page 2638.
- SREEMADHAVAN, C.P. *Reinstatement of an alleged nomen confusum and typification of Givotia Griff.* (Euph.) *Taxon* 24 (1975) 695-696.
Typification of *Croton moluccanum* L., type of *Givotia*; 1 new comb.
- STEENIS, C.G.G.J. VAN, *A review of the genus Sympetalandra Stapf and its position in Caesalpinioideae (Legum.)* *Blumea* 22 (1975) 159-167.
Key to genera of tribe Dimorphandreae; *Brandzeia* from Madagascar discarded; revision of *Sympetalandra*; key to 5 species (2 new, 2 new comb.).
- *Miscellaneous botanical notes XXIII*. *Blumea* 22 (1975) 168-170.
Some new records from Indo-Australia; key to 2 species of *Neptunia*; general note on dispersibility and range; typification of *Achimenes*.
- c.s. *Miscellaneous notes on New Guinea plants XI*. *Blumea* 22 (1975) 171-172.
New variety of *Nothofagus crenata* and 5 new records of other plants.
- * ----- c.s. *Flora untuk Sekolah di Indonesia* (1975) — Reviewed on page 2638.
- STEIN, N. *Der Dolok Sinabung. Vertikale Landschaftsgliederung eines Vulkans im nördlichen Batakhochland. Nord Sumatra*. *Die Erde* 105 (1974) 34-61, 9 phot.
Interesting detailed account of the vegetation zonation and main constituents. Edaphical and anthropogenous influences.
- *Strukturelemente der Kulturlandschaft in Deli (Nordostsumatra) und deren räumliches Gefügemuster*. K.N.A.G. *Geogr. Tijdschr.* 8 (1974) 117-129, 6 fig.

Sketches of land-use (tobacco, rice, swamp forest) from the geographical standpoint.

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Vaccinium sect. Pachyantha transferred to Dimorphantha; 5 new comb.; D. is closest related to the W. South American genus Satyria; several species reduced; 1 species re-recognized; 5 new species and 1 new variety.
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Key to 22 species (6 new); 5 names dubious (types lost).
- STEWART, R.R. *The flora of the Kurram Valley*. Biologia 13 (1967) 47-124.
Brief introduction; species listed.
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Split from Tetramolopium; 2 species in Hawaii, 8 in New Guinea; all new comb.
- *Skottsbergiliana new genus of Hawaii Island* (Cucurb.) Haw.Pl.Studies 41. Pac.Sci. 28 (1974) 457-462, 2 fig.
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- *Appendix to Henderson's 'Malayan Wild Flowers'*. Mal. Nat.J. 28 (1974) 57-83.
Mere name list. No novelties.
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- TATEOKA, T. *Phytogeographical studies of Calamagrostis sachalinensis (Gram.)*. II. Origin and dispersal. Bot.Mag. Tokyo 87 (1974) 149-164, 5 fig. & maps.
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List of 111 genera common to both, with numbers of species, also of the largest neotropical genera, ditto of Africa-Madagascar. Number estimates of subfamilies and tribes, genera, and species, with taxa common to both at all levels, suggest continuous migration, notably through long-distance dispersal. Transpacific connections are stronger. Formerly there might have been a continuous humid area from E. Africa through India and Malesia to Australia. Plant distribution cannot be understood from continental drift, long distance dispersal must be assumed. Past climatic changes hardly considered.—M.J.
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TJAHJONO SAMINGAN, M. & A. MAKMUR, *Forestry and agricultural potentialities of the Fakfak area, Irian Jaya*. *Rimba Indonesia* 17 (1972/73) 143-168, 4 maps, 4 tab. In Indonesian.

TOBE, H. *Notes on the morphological variation of Clematis tosaensis and its taxonomic problems* (Ranunc.) *J. Jap. Bot.* 50 (1975) 272-280, 7 fig. & maps.

TOMLINSON, P.B. & A.M. GILL, *Growth habits of tropical trees: some guiding principles*. In B.J. Meggers e.a. (ed.) *Tropical forest ecosystems ...* (1973) 129-143, 17 fig. A plea is made for the study of tree growth under influence of weather and climate as a single world-wide subject, from a single unifying philosophy. Knowledge of tropical trees being far behind that of temperate ones, a wrong concept of what is normal still often prevails, e.g. in lamm shoots (second flush in temperate growth season) and so do wrong generalizations (e.g. that bud scales are rare in tropical trees, while in *Oreopanax* they are even more conspicuous on growing than on resting shoots). Very slight changes in day length or temperature may bring about growth reactions in tropical trees, but far more data and measurements are needed, on anatomy, morphology and physiology combined. Extension growth is in annual shoots, continuously, or in an intermediate manner in which can be distinguished *proleptic shoots* (developed after dormancy, in temperate regions still in the same season) and *syllleptic shoots* (developing without dormancy). Speculation that a 'threshold' value must be exceeded before a branch can grow in the sylleptic manner, leads to an understanding of growth forms of all leptocaul trees, also of the dimorphism between orthotropic and plagiotropic branches, and sympodial growth of the *Terminalia* type, although in the latter replacement of a terminal shoot by a sylleptic lateral is not so restrictive. Radial growth in tropical trees may well be unrelated to climate, so analogy with growth rings of temperate trees can be misleading. Buds should be seen as manifestations of growth rather than as adaptations. Even in the leptocaul trees (to which this paper is confined) the subject offers great opportunities for research.—
M.J.

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9 species (1 new).
- TOWNSEND, C.C. *Amaranthaceae*. Flora West Pakistan no.71 (1974) 1-49, 8 fig.
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- VELASCO, J.R. & J.V.SANTOS, *Destruction and renewal of lowland forests in the Philippines*. Pac.Sc.Assoc.Symp.Cipayung Aug.1971 (1973) 118-130, 3 tab.
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- VELDKAMP, J.F. *A taxonomic revision of Dichelachne Endl. with some new comb. in Stipa L. and Oryzopsis Michx.* (Gram.) Blumea 22 (1974) 5-12.
Key to 3 species and 2 subspecies.
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- VERSTAPPEN, H.TH. *On palaeoclimates and landform development in Malesia*. In G.J.Bartstra & W.A.Casparie (ed.) Modern quaternary research in Southeast Asia (1975) 3-35, 12 fig.
Shifts in the Inter Tropical Convergence zone where N and S circulations meet, are discussed, and consequen-

ces for rainfall. During Pleistocene glaciations temperatures are now estimated 3-5° C lower than now, snow-line c. 1000 m lower, sea level c. 100 m lower, so 3 million sq.km now submerged where then dry, rainfall was c. 30% lower, dry seasons more pronounced. Drought plant distribution patterns seem proof of this; but migration of cold-loving mountain plants not yet clear. Animals lived on monsoon forest and tree savannah; drought was not strong enough for large grasslands. More frost in the mountains produced more coarse debris, river regimes more like those in the Lesser Sunda Islands; clays were deposited under recent wetter conditions. Drainage of Sunda and Sahul shelves (where rivers had a low gradient) are discussed, and planation on the land, the latter especially strong where drier conditions reduced the hold of the vegetation on the thick soil previously under rain forest. Van Steenis is credited with the earliest ideas about Pleistocene drought on the Sunda Shelf, but he may have thought less of a wide 'drought corridor' than of a mosaic of wet and dry areas, the latter acting as stepping stones for drought plants. In view of the slow evolution and migration of primary forest, considerable tracts must have survived in Malesia during the driest periods, as is admitted by Verstappen.—M.J.

VICKERY, J.W. *Gramineae. Supplement to Part 1; Part 2. Flora of N.S.W. no.19 (1975) 125-306.*

VIDAL, J.E. & S.HUL THOL, *Révision du genre Pterolobium (Caesalp.). Bull.Mus.Nat.Hist.Nat.Paris sér.3 Bot. 15 (1974) 1-29, 4 pl., 1 map.*

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VOGEL, E.F.DE, *Orchideeën uit de tropische oerbossen, een bedreigde plantengroep. Panda Nieuws 11 (1975) 115-120, 5 fig.*

In Dutch. Excellent review of the ruthless extermination of wild orchids for commercial purposes in Indonesia and elsewhere. — See also page 2602.

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Genera *Aeschynanthus* and *Lysionotis*. Keys; incl. new species. In Chinese.
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- *----- *Tropical rain forests of the Far East* (1975) — Reviewed on page 2640.
- WILLIS, J.H. *Four new species of plants endemic in the MacDonnell and George Gill Ranges, Central Australia*. Muelleria 3 (1975) 89-101, 3 pl.
Portulaca filsonii, *Euphorbia sarcostemmoides*, *Ricinocarpus gloria-medii*, *Leucopogon sonderensis*.

- WILSON, P.G. *A taxonomic revision of the genus Maireana* (Chenop.) Nuytsia 2 (1975) 2-83, 10 fig., 27 maps.
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Beautifully illustrated account of species and forms of Impatiens from East New Guinea; information on crosses.
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- , LING-TI LU & TSUE-CHIH KU, *Taxa nova Rosacearum sinicarum (II)*. Act. Phytotax. Sin. 13 (1975) 99-106, 3 pl. New species of Sorbus and Spiraea. In Chinese.
- YUEH, CHUNG-HSI & CHING-YUNG CHENG, *A preliminary study on the Chinese medicinal species of genus Trichosanthes (Cuc.)* Act. Phytotax. Sin. 12 (1974) 415-457, 9 fig., 8 pl., 1 tab.
Key to 34 species (some new); in Chinese.
- * ZEVEN, A.C. & P.M. ZHUKOVSKY, *Dictionary of cultivated plants and their centres of diversity. Excluding ornamentals, forest trees and lower plants* (1975) — Reviewed on page 2644.

BIBLIOGRAPHICAL CRUTCHES

Much has changed for the better since E.D. Merrill & E.H. Walker in their Bibliography (1938) vii-viii gave an amusing anthology of misleading titles of publications. Yet after the proofreading finding some open space, I'd like to invite you to view the above titles with a really critical eye.

Many do not include the plant family - presumably a remainder from the happier days when botanists, still ignorant of Hutchinsoiaceae and Airyshawiaceae, knew where a genus belonged. Indications of the geographical area covered by the publication, are by no means common, either ... an allusion to the desire of the author to be a true cosmopolitan in the eye of his readers?

And then the spate of author's names! One truly honours the significance of this word (auctor = the one who adds) by printing his own name in the title after both the species there announced. It may be an effort to avoid 'Mihilismus' (Fedde Rep. 42: 89-100. 1937): the replacement by the author's name by 'mihi' out of false modesty. But even so, if I were asked to explain the informative value of author's names in titles, I would not know. In cases of homonymy allright, but for the rest, don't we have the Kew Index? Now that registration is reasonably perfect, how are we to view this citation of authorities? The only answer I can think of is: "A perfect relic of an imperfect past".

We shall be happy to supply limping authors with bibliographical crutches in the form of supplementary annotations. But can the others, in coining their titles, perhaps make an effort at more agility? — M.J.