

X. BIBLIOGRAPHY
(continued from page 3705)

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* :

BERDACH, J.T. *Haploplegma duperreyi* and *Dasyphila plumariooides* (*Ceramiales, Rhodophyta*) from Boracay Island, Aklan (Philippines). *Kalikasan* 9 (1980) 99-103, 2 fig.

BONGALE, U.D. & S.G. BHARATI, *On the algal flora of cultivated soils of Karnataka State, India*. *Phykos* 19 (1980) 95-109, 1 tab.
 Large name list.

CASSIE, V. *Bibliography of the freshwater algae of New Zealand 1849-1980*. *New Zeal.J.Bot.* 18 (1980) 433-447.

*CHAPMAN, V.J. *The marine algae of New Zealand. III. 4. Gigartinales*. J.Cramer, Vaduz (1979) pp. 279-507, pl. 95-181, fig. 76-120.
 Keys and descriptions.

CLAYTON, J.S. & R. WELLS, *Key to the common Characeae of New Zealand*. *New Zeal.J.Bot.* 18 (1980) 569-570.
 Key to 15 species.

CRANE, P. *The marine Chlorophyceae and Phaeophyceae of Penang Island*. *Malayan Nat.J.* 34 (1981) 143-169, 33 fig.
 Key to the Chlorophyta of Penang I.; Phaeophyta, less numerous, are listed.

FRYXELL, G.A. & H.J. SEMINA, *Actinocyclus exiguis* sp.nov. from the southern parts of the Indian and Atlantic oceans. *Br.Phycol.J.* 16 (1981) 441-448, 10 fig., 1 tab.
 A small centric diatom.

*HUMM, H.J. & S.R. WICKS, *Introduction and guide to the marine bluegreen algae*. John Wiley & Sons, New York (1980) 194 pp., 34 fig., 5 pl.
 With keys to genera and species.

KING, R.J. *The free-living Hormosira banksii (Turner) Decaisne associated with mangroves in temperate Eastern Australia*. *Botanica Marina* 24 (1981) 569-576, 9 fig., 1 tab.

LEE, Yao-yin, *A new species of Characeae from Xizang*. *Acta Phytotax.Sin.* 19 (1981) 267-268, 1 fig. In Chinese.

MORELAND, P.S. *Edible seaweeds of northern Luzon, Philippines: market prices, local taste preference, seaweed recipes, and other local uses*. *Philip.J.Sc.* 108 (1979) 41-53, 2 tab.

- PANDEY, U.C. & D.C. PANDEY, *Additions to the algal-flora of Allahabad-III desmids.* Phykos 19 (1980) 71-81, 1 pl.
75 species listed.
- PATEL, R.J., I. GEORGE & J.K. DANIEL, *Algae of fish ponds in Gujarat, India.* I. *Chlorococcales.* Phykos 19 (1980) 83-88.
44 names listed.
- PRASAD, B.N. & R.K. MEHROTRA, *Blue-green algae of paddy fields of Uttar Pradesh.* Phykos 19 (1980) 121-128.
165 names listed.
- RAO, P. SREENIVASA & K.S. PAREKH, *Antibacterial activity of Indian seaweed extracts.* Botanica Marina 24 (1981) 577-582, 2 fig., 5 tab.
- RATNASABAPATHY, M. & R. SETO, *Thorea prousei sp.nov. and Thorea clavata sp.nov. (Rhodophyta, Nemaliales) from West Malesia.* Jap.J.Phycol. (Sôrui) 29 (1981) 243-250.
From Gombok and Tahan Rivers, on stones in flowing water.
- REYES, A.Y. *The littoral benthic algae of Siquijor Province. II. Rhaeophyta and Rhodophyta.* Philip.J.Sc. 107 (1978) 117-173, 13 pl.
Keys to orders, families and species; descriptions of species and nice habit figures.
- SINKORA, D.M. *Notes on a little known publication by Sonder on the marine algae of the New Hebrides.* Muelleria 4 (1981) 419-422, 1 fig.
Escaped former monographers; 4 species names.
- STIDOLPH, S.R. *A record of some coastal marine diatoms from Porirua Harbour, North Island, New Zealand.* New Zeal.J.Bot. 18 (1980) 379-403, 14 fig., 1 tab.
150 species recorded and illustrated (25 new for New Zealand; 1 new variety).

b) *Fungi & Lichens :*

- ARVIDSSON, L. & D.J. GALLOWAY, *Degelia, a new lichen genus in the Pannariaceae.* Lichenologist 13 (1981) 27-50, 8 fig. & maps, 1 tab.
Also Australasian & Hawaiian; key to 3 species; 3 new comb.
- AWASTHI, D.D. & D.K. UPRETI, *Buellia isidiophora and Lopadium austroindicum, two new species of lichens from India.* Curr.Sci. 50 (1981) 821-823, 7 fig.
- BAIJAL, U. & B.S. MEHROTRA, *The genus Cunninghamella - a reassessment.* Sydowia 33 (1980) 1-13, 3 pl.
Key to 9 species, almost all in India.
- BASTOS, C.N., H.C. EVANS & R.A. SAMSON, *A new hyperparasitic fungus, Cladobotryum amazonense, with potential for control of fungal pathogens of Cocoa.* Trans.Br.Mycol.Soc. 77 (1981) 273-278, 3 fig., 2 tab.

BESL, H. Amatoxine im Gewächshaus: *Galerina sulciceps*, ein tropischer Giftpilz. Z. Mykol. 47 (1981) 253-255.

Description of occurrence in greenhouse at Regensburg; chemically investigated.

BRUMMELEN, J. van, The genus *Ascodesmis* (Pezizales, Ascomycetes). Persoonia 11 (1981) 333-358, 7 fig.

Key to 6 species (1 also in Indonesia).

CORNER, E.J.H. *Boletus longipes* Mass., a critical Malaysian species. Gard. Bull. Sing. 33 (1980) 290-296, 1 tab.

Discussion on variability; *Austroboletus* not recognized at generic rank.

----- *Entoloma* (Fr.) Kummer in the Malay Peninsula. Gard. Bull. Sing. 33 (1980) 297-300.

Data on growth of fruit bodies in several species based on Corner's wide field knowledge.

*----- The Agaric genera *Lentinus*, *Panus* and *Pleurotus*, with special reference to Malaysian species. Beih. Nova Hedwigia 69 (1981) 169 pp., 40 fig.

Generic distinction; that between *Lentinus* and *Pleurotus* remains uncertain; key to genera; keys to Malaysian species and notes on non-Malaysian species; quite some new species (also new comb.), often from Mt Kinabalu, but also records from Sumatra and the Solomon Islands.

DE, A.B. & A. ROY, Studies on Indian Polypores. IV. Morphological and cultural characters of *Polyporus grannocephalus*. Mycologia 73 (1981) 150-156, 11 fig.

Occurs also in Malesia.

DÖBBELER, P. Moosbewohnende Ascomyceten. V. Die auf Dawsonia vorkommenden Arten der botanischen Staatssammlung München. Mitt. Bot. München 17 (1981) 393-474, 25 Abb.

Nearly two dozen species, some new (1 new genus with 1 n.sp.).
Borneo, New Guinea, Australia, New Zealand, Tasmania.

ELIX, J.A. New species of *Parmelia* subgen. *Xanthoparmelia* (*Lichens*) from Australia and New Zealand. Aust. J. Bot. 29 (1981) 349-376, 18 fig.
16 new species from S. Australia.

FILSON, R.B. A revision of the lichen genus *Cladia* Nyl. J. Hattori Bot. Lab. no 49 (1981) 1-75, 29 pl.

New family Cladiaceae; key to 7 species, mainly southern hemisphere.

HALE Jr, M.E. A revision of the lichen family *Thelotremataceae* in Sri Lanka. Bull. Br. Mus. Nat. Hist. (Bot.) 8 (1981) 227-332, 20 fig.
Key to 110 species (2 dozen new).

HAWKSWORTH, D.L. The lichenicolous Coelomycetes. Bull. Br. Mus. Nat. Hist. (Bot.) 9 (1981) 1-98, 36 fig. — Revision; keys to genera (20, 7 new) and species (42, 7 new).

- HEINEMANN, P. *The genera Agaricus and Micropsalliota in Malaysia, Singapore and Indonesia.* Bull. Jard. Bot. Nat. Belg. 50 (1980) 3-68, 5 col. pl. In French, with English summary.
25 species (9 new) of Agaricus and 16 (13 new) of Micropsalliota; coll. E.J.H. Corner from Malaya, Singapore, Borneo, and Java. Keys; full descriptions. Comparison with African and American species.
- HODGES, C.S. *Hawaiian forest fungi. I. A new species of Phyllachora on the tree fern Cibotium glaucum.* Mycologia 73 (1981) 748-754, 4 fig.
- HONG, L.T. *A note on some seed fungi of dipterocarps.* Malays. Forester 44 (1981) 163-166, 1 fig.
Four species of dipterocarps, 16 genera of fungi.
- HORAK, E. *New and remarkable Hymenomycetes from tropical forests in Indonesia (Java) and Australasia.* Sydowia 33 (1980) 39-63, 13 fig., 1 pl.
17 species either redescribed or new; some new combinations.
- *Taxonomy and distribution of two little known, monotypic genera of Agaricales: Amparoina, Cystoagaricus.* Sydowia 33 (1980) 64-70, 2 fig., 1 map.
Circumpacific, also in New Guinea.
- *Supplementary remarks to Austroboletus (Corner) Wolfe (Boletaceae).* Sydowia 33 (1980) 71-87, 6 pl.
15 species treated, some new; also in New Guinea.
- *Indian Boletales and Agaricales. Revisions and new taxa.* Sydowia 33 (1980) 88-110, 7 pl.
Key to 13 species; mostly Indian but also from Malesia; some new species and new combinations.
- *On Australasian species of Lepiota S.F. Gray (Agaricales) with spurred spores.* Sydowia 33 (1980) 111-144, 15 fig.
Key to 20 species; also from Malesia; several new species from Papua.
- *On Himalayan species of Astrosporina and Inocybe (Agaricales).* Persoonia 11 (1981) 303-310, 4 fig.
4 Indian species (2 new, 1 new comb.).
- JAHNS, H.M. *The genus Pilophorus.* Mycotaxon 13 (1981) 289-330, 17 fig., 41 maps.
Revision. Key to the species (4 excluded).
- *JÜLICH, W. *Higher taxa of Basidiomycetes.* Bibl. Mycol. 85. J.Cramer, Vaduz (1981) 485 pp.
Complete survey and system of families and higher taxa; many new families and genera.
- KASHIWADANI, H. *New or noteworthy species of Stereocaulon of Japan.* Bull. Natn. Sci. Mus. Tokyo ser. B, 7 (1981) 69-73, 1 fig., 1 pl.
Lichens. 2 species (1 new).

- & S. KUROKAWA, *Notes on Japanese and Formosan species of Anthracothecium*. J.Jap.Bot. 56 (1981) 303-312, 4 fig., 1 pl.
Lichens. Key to 8 species (2 new).
- & ----- *Notes on Japanese and Formosan species of Anthracothecium (2)*. J.Jap.Bot. 56 (1981) 348-356, 3 fig.
Treats 4 species (1 new comb.).
- KOBAYASHI, T. *Notes on the Philippine fungi parasitic to woody plants (3)*. Trans.Mycol.Soc.Japan 21 (1980) 311-319, 6 fig.
4 species described (3 new).
- KOBAYASI, Y. *Revision of the genus Cordyceps and its allies. 1*. Bull.Natn. Sci.Mus.Tokyo ser.B, 7 (1981) 1-13, 14 fig.
2 new genera, several n.sp. & comb.; some from New Guinea.
- *The genus Auricularia*. Bull.Natn.Sci.Mus.Tokyo ser.B, 7 (1981) 41-67, 25 fig.
Synopsis of 20 species (1 new comb.).
- KOHLMEYER, J. *Marine fungi from Easter Island and notes on Thalassoascus*. Mycologia 73 (1981) 833-843, 13 fig.
6 marine Ascomycetes and 4 Fungi imperf. from drift wood etc.; mostly new records for S. Pacific. Key to species of Thalassoascus (3 species, 1 new).
- KUTHUBUTHEEN, A.J. *Basidiomycetes: 1. Agaricales*. Nature Malaysiana 5, no 3 (1980) 36-45, col.illus.
Stray notes on a number of fungi.
- *Basidiomycetes: 2. Aphyllophorales*. Nature Malaysiana 5, no 4 (1980) 45-45, col.illus.
Notes on a variety of fungi.
- *Basidiomycetes: 3. Gasteromycetes*. Nature Malaysiana 6, no 2 (1981) 36-39, col.illus.
Illustrations of several representatives.
- *Notes on the macrofungi of Langkawi*. Malayan Nat.J. 34 (1981) 123-130, 1 fig., 1 tab.
61 species collected; introduction; name list.
- LAI, Ming-jou, *Notes on some Hypogymniae (Parmeliaceae) from East Asia*. Quart.J.Taiwan Mus. 33 (1980) 209-214, 1 pl.
Lichens. 13 species listed (1 new).
- *Studies on the Cetrarioid lichens in Parmeliaceae of East Asia (I)*. Quart.J.Taiwan Mus. 33 (1980) 215-229, 3 fig.
18 species listed and described (1 new).
- LAUNDON, J.R. *The species of Chrysotrichia*. Lichenologist 13 (1981) 101-121, 8 fig. & maps, 2 tab.
Revision; 4 species (1 in India, 1 in Malaya).
- LEELAVATHY, K.M., S.ZACHARIAH & K.V.SANKARAN, *Clarkeinda trachodes, an agaric new to India*. Mycologia 73 (1981) 204-207, 4 fig.

- LIU, Tang-shui, Ming-jou LAI & Han-shi LIN, *The cladoniform lichens in Taiwan.* Quart.J.Taiwan Mus. 33 (1980) 1-35, 31 fig.
Keys to genera and species, 32 in all; none new.
- LONG, W. *Stinkhorn Fungus.* Nature Malaysiana 5, no 1 (1980) 10-11, col. illus.
Notes on Dictyophora phalloidea.
- MAKHIJA, U. & M.B.NAGARKAR, *Two new species of the lichen genus Megalospora from South-West India.* Curr.Sci. 50 (1981) 823-824, 6 fig.
- *MATHUR, R.S. *The Coelomycetes of India (with a foreword by H.L.Barnett).* Bishen Singh Mahendra Pal Sing, 23-A Connaught Place, Dehra Dun, India (1980) xx + 460 pp. Rs. 175, US\$ 35.
Alphabetical enumerated genera and species; 5 indices; unfortunately rather many printing errors and incorrect citations; several new names and new comb. used from MS Thesis not validly published.
- MILNER, R.J., R.E.TEAKLE, G.G.LUTTON & F.M.DARE, *Pathogens (Phycomycetes: Entomophthoraceae) of the blue-green Aphid Acyrthosiphon kondoi Shinji and other Aphids in Australia.* Aust.J.Bot. 28 (1980) 601-619, 30 fig., 3 tab.
6 species keyed out.
- NAGASAWA, E. & T.HONGO, *Tricholoma giganteum Massee, an agaric new to Japan.* Trans.Micol.Soc.Japan 22 (1981) 181-185, 5 fig.
Was known from Africa and Mauritius; now in RyuKyu Is. and Kyushu.
- NATARAJAN, K. & N.RAMAN, *South Indian Agaricales. VII.* Nova Hedwigia 34 (1981) 163-176, 48 fig.
- OTANI, Y. *Termitomyces albuminosus (Berk.) Heim collected in Ishigaki Island of Ryukyu Archipelago, Japan.* Trans.Micol.Soc.Japan 20 (1979) 195-202, 1 fig., 1 col.pl. In Japanese.
- PARMASTO, E. *On the Asian species of the genus Campanella (Tricholomataceae: Collybieae).* Nova Hedwigia 34 (1981) 437-447, 4 fig.
Key to 4 species (one reduction of a Bonin Is. species to a new combination).
- PEGLER, D.N. & T.W.K.YOUNG, *A natural arrangement of the Boletales, with reference to spore morphology.* Trans.Br.Micol.Soc. 76 (1981) 103-146, 196 fig.
1 new family; 1 new genus; large species lists, with several new combinations.
- PETERSEN, R.H. *Ramaria subgenus Echinoramaria.* Bibl.Micol. 79 (1981) 1-261, 15 pl.
Monograph; key to 35 species (also in Indonesia); ident. list.
- PHADKE, C.H. *Esdipatilia, a new genus of Hyphomycetes.* Trans.Br.Micol. Soc. 77 (1981) 642-644, 2 fig.
New species from Konkan, S. India.

- RAI, J.N., K.L. GARG & A.K. JAITLEY, *Saprophytic fungi isolated from woods in mangrove swamps and their wood-decaying capability.* Trans. Mycol. Soc. Japan 22 (1981) 65-74, 2 fig., 2 tab.
 78 species were isolated from wood samples in the Sunderbans of Bengal. Some are more important than others for wood decay. Discussion. Species listed.
- ROGERS, J.D. *Sarcoxylon and Entonaema (Xylariaceae).* Mycologia 73 (1981) 28-61, 55 fig.
 17 species treated (2 new); key to 7 species. Occur also in Malesia.
- ROYCHOWDHURY, K.N. *Lichens of the Indian Botanic Garden, Howrah.* Bull. Bot. Surv. India 21 (1979; publ. 1981) 163-167.
 49 taxa listed.
- RYVARDEN, L. *Type studies in the Polyporaceae. 12. Species described by F.W. Junghuhn.* Persoonia 11 (1981) 369-372.
 Evaluation of 3 dozen names.
- SAMMY, N. *Lichens from Gunong Mulu National Park Sarawak, East Malaysia.* Part 1. Introductory account. Part 2. *Foliicolous lichens.* Malayan Nat. J. 34 (1980) 57-71, 3 fig., 1 tab.
 14 species (9 new records for Borneo); key.
- SAXENA, A.K. & S.B. SAKSENA, *Sphaerotheca verbena*, a new fungus for India. Curr. Sci. 50 (1981) 766-767, 1 fig.
 On *Gmelina asiatica*.
- SCHROEDER, R.F. & G. GUZMÁN, *A psychotropic fungus in Nepal.* Mycotaxon 13 (1981) 346-348.
 First *Psilocybe* in mainland Asia.
- SINGER, R. *Notes on bolete taxonomy. III.* Persoonia 11 (1981) 369-302, 2 tab.
 Concerns also some Malayan species.
- SINGH, K.P. *Lichen genus Maronea Mass. in India.* Geophytology 10 (1980) 34-36, 5 fig.
 1 species also in Java; key to 3 species.
- *Some new records of lichens from India.* Bull. Bot. Surv. India 21 (1979; publ. 1981) 221-223.
- & D.D. AWASTHI, *Lichen genus Phaeographis from India and Sri Lanka.* Bull. Bot. Surv. India 21 (1979; publ. 1981) 97-120, 107 fig.
 28 species keyed out (2 new, 2 reduced).
- STEVENS, G.N. *The macrolichen flora on mangroves of Hinchinbrook Island, Queensland.* Proc. R. Soc. Qld 92 (1981) 75-84, 1 map.
 Vegetation; keys to genera and species.
- SUGIYAMA, K. & M. HAYAMA, *Notes on Laboulbeniomycetes of Formosa. II.* Trans. Mycol. Soc. Japan 22 (1981) 187-196, 10 fig.
 9 species.

- SUTTON, B.C. *Microfungi from Australian leaf litter.* Proc.R.Soc.Qld. 91 (1980) 11-19, 3 fig.
13 Deuteromycetes recorded, some also from Malesia; 3 new species.
- *Sarcopodium and its synonyms.* Trans.Br.Mycol.Soc. 76 (1981) 97-102, 2 fig.
4 genera reduced to *Sarcopodium*; 2 comb. new of Indian species.
- SWART, H.J. *Australian leaf-inhabiting fungi.* Trans.Br.Mycol.Soc. 76 (1981) 89-95, 4 fig., 1 tab.
1 new genus and 1 new combination.
- *TAI, F.L. *Sylloge fungorum sinicorum.* Science Press Academia Sinica Peking (1979) viii + 1526 pp.
A most important name list, with synonyms and host plants; alphabetically arranged by genera.
- TERADA, K. *Osoriomyces. a new genus of the Laboulbeniales from Taiwan.* Mycotaxon 13 (1981) 412-418, 18 fig.
Monotypic.
- TSUDA, M. & A. UNEYAMA, *Pseudocochliobolus australiensis, the ascigerous state of Bipolaris australiensis.* Mycologia 73 (1981) 88-96, 15 fig.
Occurs also in Japan, Hawaii and Indonesia.
- WATLING, R. & N.M.GREGORY, *Census Catalogue of world members of the Bolbitiaceae.* Bibl.Mycol. 82 (1981) 1-224.
Of each species the basionym and type data and often remarks.
- WEI, Jiang-chun, *Lichenes sinenses exsiccati.* (Fasc. 1: no. 1-50). Bull. Bot.Research (Harbin, China) 1, no 3 (1981) 81-91.
50 species listed.
- YEN, Jo-min, *Etude sur les champignons parasites du sud-est Asiatique.* 42. *Champignons parasites de Malaisie.* 21. Bull.Soc.Myc.Fr. 97 (1981) 129-133, 2 fig.
2 new species in *Cladosporium* and *Ulocladium*; many transfers of *Cercosporas* to *Mycovelloziella*.
- *Etude sur les champignons parasites du sud-est Asiatique.* 44. *Les Cercospora de Formose.* VII. Bull.Soc.Myc.Fr. 97 (1981) 149-155, 2 fig.
13 species (6 new comb. to *Pseudocercospora*).
- ZANG, Mu, *Notes on the classification and distribution of Termitomyces from Yunnan.* Acta Bot. Yunnanica 3 (1981) 367-374, 2 fig. In Chin.
Key to 3 species.
- ZHAO, Jiding, Lianwang XU & Xiaoqing ZHANG, *On the genus Polyporus of China and its taxonomic position.* Acta Microbiol. Sinica 21 (1981) 428-437, 2 fig.
36 species listed; 5 new.
- ZHAO, Zhenyu, *Taxonomic studies on the genus Sphaerotilotheca of China. IV. New species and new combination on Rosaceae and Labiateae.* Acta Microbiol. Sinica 21 (1981) 438-442, 2 fig.

c) *Bryophytes* :

- BREMER,B. *A taxonomic revision of Schistidium (Grimmiaceae, Bryophyta)*. 2. *Lindbergia* 6 (1980) 89-117, 21 fig. & maps.
8 species; no key; 2 new comb.; 1 sp. through Asia to New Zealand.
- CAMPBELL,E.O. *Notes on some Anthocerotae of New Zealand*. (Hepat.) *Tuatara* 25 (1981) 7-13, 5 fig.
Details on *Anthoceros laevis*.
- *CATCHESIDE,D.G. *Mosses of South Australia*. Woolman, Govt Printer, S. Australia (1980) 364 pp., 209 fig., 16 col.pl.
Well-illustrated handbook, with descriptions and keys.
- CROSBY,M. & C.R.BAUER, *Index Muscorum Supplementum: 1978-1979*. *Taxon* 30 (1981) 667-693.
- ENGEL,J.J. *Index Hepaticarum Supplementum: 1976-1977*. *Taxon* 30 (1981) 518-537.
- *GANGULEE,H.C. *Mosses of Eastern India and adjacent regions. Fascicle 8. Hypnobryales - Hypninae*. Univ. of Calcutta (Oct. 1980) xlv-liii + 1753-2145, illus.
Full descriptions, synonymy and illustrations, incl. maps of distribution (dotted); many species occur also in Malesia.
- GAO,Chien, Guang-chu ZHANG & Tong CAO, *Taxa nova Bryophytarum tibeticarum*. *Acta Bot.Yunnanica* 3 (1981) 389-399, 7 fig. In Chinese.
16 new species in various genera of Hepaticae and Musci.
- GRADSTEIN,S.R. & L.TERKEN, *Studies on Lejeuneaceae subfam. Ptychanthoidae VI. A revision of Schiffnirolejeunea sect. Saccatae from Asia*. *Occas.Pap.Farlow Herb.* 16 (1981) 71-81, 2 fig.
Key to 3 species (1 new comb.); all in Malesia.
- INOUE,H. *Taxonomic miscellany on hepatics (1)*. *J.Jap.Bot.* 56 (1981) 105-110, 1 fig.
Mostly on Pallavicinia, but also some other genera; also records from Malesia.
- *Notes on the Plagiochilaceae. XI. A review of the species of Plagiochila (Dum.) Dum. from Samoa*. *J.Hattori Bot.Lab.* no 49 (1981) 335-357, 10 fig., 1 tab.
Key to 9 species.
- *JOHNSON,A. *Mosses of Singapore and Malaysia*. Singapore Univ. Press (1980) 126 pp., 96 fig.
A rather popular account of 128 mosses of Singapore to which is added a selection from Malaya, rather crudely illustrated. Two keys are for identifying the genera. All species are provided with a vernacular English name. Obvious intended for beginners to gain some form knowledge.

- KOPONEN,T. *A synopsis of Mniacaceae (Bryophyta). VI. Southeast Asian taxa.*
Acta Bot.Fennica 117 (1981) 1-34, 25 fig.
 General key to 8 genera; keys to 51 spp.; types indicated; 21 names reduced.
- *A synopsis of Mniacaceae (Bryophyta). VII. List of species and their distribution.* Ann.Bot.Fennici 18 (1981) 113-115, 1 map.
 Name list.
- LAI,Ming-jou & T.KOPONEN, *A synopsis of the genus Taiwanobryum (Musci, Prionodontaceae) with notes on Neolindbergia brassii.* Ann.Bot.Fennici 18 (1981) 117-122, 7 fig.
 Key to 2 species; 1 in Malesia, 1 in Taiwan & Japan.
- LAL,J. *Frullania tuyanae Hatt. & Thaith. (Hepaticae) from Manipur (Eastern India), new to India.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 81-83, 22 fig.
 Originally from Laos.
- LI,Deng-ke, *New taxa of the genus Plagiothecium from Xizang.* Acta Phytotax.Sin. 19 (1981) 264-266, 1 fig. In Chinese.
- LIU,Tang-shui & Ming-jou LAI, *The peat moss genus Sphagnum L. in Taiwan.* Quart.J.Taiwan Mus. 34 (1981) 95-104, 2 pl.
 Key and descriptions of 8 taxa.
- MANUEL,M.G. *A review of the genus Diphyscium Mohr (Bryopsida: Diphysciaceae) in Malaya.* J.Bryol. 11 (1980) 245-248, 1 fig.
 Key to 3 species (1 new).
- *A synopsis of Bartramiaceae Schwaegr. (Bryophytina) in Malaya.* J. Hattori Bot.Lab. no 50 (1981) 249-252.
 Key to 6 species (2 genera); no descriptions.
- *Synopsis of the Rhizogoniaceae Broth. from Malaya.* Cryptog.(Bryol. & Lichén.) 2 (1981) 449-455, 4 fig.
 Key to 4 species.
- MILLER,H.A. *Notulae Hepaticarum Polynesiae.* Phytologia 47 (1981) 319-324.
 61 new names or combinations. The area covered by the proposed 'Prodromus Flora Hepaticorum Polynesiae' is from Hawaii to Bonin, southward east of the Philippines to Lord Howe I., eastward north of New Zealand to Easter I.
- MIZUTANI,M. *Notes on the Lejeuneaceae. 5. Some Asiatic species of the genus Ceratolejeunea.* J.Hattori Bot.Lab. no 49 (1981) 305-318, 7 fig.
 7 species commented (2 new; from Java and Borneo resp.).
- ONRAEDT,M. *Bryophytes récoltées à Sri Lanka (Ceylan).* V. J.Hattori Bot. Lab. no 50 (1981) 191-216.
 222 species listed (66 genera).

- *ROSARIO, R.M.del, *Moss flora of the National Botanic Garden, Quezon Province, Philippines*. Agric.Res.Center Nat.Inst.Sci.& Technol., Manila (1979) 133 pp., 98 fig.
84 taxa of Musci; key to families; species mostly from a residual dipterocarp forest; each species figured.
- SCHUSTER, R.M. *Evolution and speciation in Pellia, with special reference to the Pellia megaspora-endiviifolia complex (Metzgeriales). I. Taxonomy and distribution*. J.Bryol. 11 (1981) 411-431, 2 fig., tab. Key to several species.
- TAN, B.C. *Orthorrhynchium elegans (Hook.f. et Wils.) Reichdt. (Phyllogoniaceae), new record for the Philippine moss flora*. Gard.Bull.Sing. 34 (1981) 180-183, 1 pl.
- TIXIER, P. *La notion d'espèce chez le genre Cololejeunea. Le complexe Cololejeunea floccosa (Lehm. & Lindenb.) Schiffn. Cryptog. (Bryol. & Lichén.) 2 (1981) 47-76, 15 fig., 2 tab.*
8 varieties distinguished; key; Indo-Malesian species.
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----- *Icacinaceae*. Fl.Reipubl.Pop.Sinicae 46 (1981) ii-iv + 37-65, 5 pl. 13 genera with 25 species.

CLAYTON,W.D. *Notes on the tribe Andropogoneae (Gramineae)*. Kew Bull. 35 (1981) 813-818.

New subtribe; Glyphochloa n.g. based on a number of Indian species formerly under Manisurus; 2 Mal. spp. of Polytoca transferred to Chionachne; Coelorhachis geminata comb.nov. from Malaya; Heteropholis cochinchinensis comb.nov. from India to Philippines; and various other new comb. for Indian species.

----- *Evolution and distribution of grasses*. Ann.Missouri Bot.Gard. 68 (1981) 5-14, 1 fig.

Subfamily level; evolution; general.

CLEMESHA,S.C. *A review of Dendrobium speciosum Sm.* The Orchadian 6 (1981) 247-262, 15 fig.

Very extensive treatment; varieties.

----- *A new subspecies of Pterostylis from North Queensland*. The Orchadian 7 (1981) 13.

P. ophioglossa ssp. fusca Clemesha.

*COCKBURN,P.F. *Trees of Sabah*. Vol. 2 (1980) — Reviewed on page 3789.

*Commonly used medicinal plants in colour. Vol. II. Edited by the Southern China Botanical Institute, Academia Sinica and the Kwantung Provincial Products Co. Special issue for Chinese medicines (1979) 420 pp., 400 col.pl.

CONN,B.J. *A review of Drosera in Papuasia*. Brunonia 3 (1980) 209-216, 2 fig.

Key to the 7 species, the record of the N. Australian D. banksii R.Br. ex DC. (allied to D. peltata) being new for Malesia.

----- *The Drosera peltata-D. auriculata complex*. J.Adelaide Bot.Gard. 3 (1981) 91-100, 1 fig. — D.auriculata reduced as ssp. to D.peltata.

- CONNOR,H.E. *Evolution of reproductive systems in the Gramineae.* Ann.Missouri Bot.Gard. 68 (1981) 48-74, 5 tab.
- COOK,C.D.K., R.LÜÖND & Bhadran NAIR, *Floral biology of Blyxa octandra (Roxb.) Planchon ex Thwaites (Hydrocharitaceae).* Aquatic Botany 10 (1981) 61-68, 6 fig.
Flower biology; Diptera and Odonata carry pollen.
- COOKE,D.A. *New species of Schoenus (Cyperaceae) and Trithuria (Hydatellaceae).* Muelleria 4 (1981) 299-303, 4 fig.
2 new species, one from the Northern Territory.
- *CORNER,E.J.H. *The marquis / A tale of Syonan-to.* Heinemann Asia, 41 Jalan Pemimpin, Singapore 2057 (1981) xi + 186 pp., phot. Paperback. £4.25.
Controversial but breathtaking account of author's collaboration with the Japanese in Singapore during World War II to conserve books and collections in the Herbarium and Raffles Museum. Biographical data on marquis-dendrologist Y.Tokugawa, volcanologist H.Tanakadate, zoologist W. Birtwistle, botanist Kwan Koriba (portr.), note on publication of Symington's book on dipterocarps.—M.J.
- COVACEVICH,J. *Distribution of the Nypa palm in Australia.* Principes 25 (1981) 184-188, 4 fig. & maps.
- COX,P.A. *Bisexuality in the Pandanaceae: new findings in the genus Freycinetia.* Biotropica 13 (1981) 195-198, 5 fig.
In F. reineckei from Samoa; also F. negrosensis from the Philippines. This monoecism occurs only occasionally. Male and female flowers occur together in one spike; there is no question of bisexual flowers.
- *CRANWELL,L.M. *The botany of Auckland.* Auckl.Inst.& War Memorial Museum, Auckland, New Zealand (1981) 156 pp., many fig. & phot., 2 maps.
The third and entirely updated and enlarged edition of a most charming book, first published in 1936. A lively introduction for any foreign botanist visiting North Island, with brief but very good descriptions of local sites, in passing giving broad views on the ecology and history of the New Zealand flora, touching on almost all of the peculiar aspects and plants of this N.Z. subtropical island, phanerogams and cryptogams, useful products and check-list of Auckland species.
- CRIBB,P.J. *Paphiopedilum acmodontum (Orch.).* Curtis Bot.Mag. n.s. 183 (1981) tab. 820: pp. 111-112, 1 fig.
From the Philippines.
- *Two new orchids from the Highlands of Papua New Guinea.* The Orchadian 6 (1981) 274-276, 2 fig.
2 new Dendrobium species.
- *A preliminary key to Dendrobium sect. Latouria (including three newly described species).* The Orchadian 6 (1981) 277-283, 3 fig.
Key to 48 species; description of 3 new species.

CROWTHER, J. Ecological observations in a tropical karst terrain, West Malaysia. 1. Variations in topography, soils and vegetation. *J.Bio-geogr.* 9 (1982) 65-78.

Forest in shallower limestone soils as large as on thicker granite-derived soils because of amount of nutrients.

DAGHLIAN, C.P. A review of the fossil record of Monocotyledons. *Bot.Rev.* 47 (1981) 517-555.

DAM, D.P. & Smt. N.DAM (née GOON), Notes on *Rhododendron dalhousiae* Hooker var. *rhabdotum* (Balf.f. & Cooper) Cullen, comb. et stat.nov. from Kameng District of Arunachal Pradesh. *Bull.Bot.Surv.India* 21 (1979; publ. 1981) 173-174, 2 fig.

DARJANTO, Ubi kayu untuk makanan rakyat. *Bul.Kebun Raya* 4 (1979) 25-31, 12 tab.

Cassave as people's food.

DASSANAYAKE, M.D. Typification of *Crinum zeylanicum* (L.) L. (Amaryllidaceae). *Taxon* 30 (1981) 481-482.

Disagrees with Nordal 1977.

*----- (ed.) A revised handbook to the flora of Ceylon. Vol. 3 (1981) — Reviewed on page 3789.

DAVIDSON, C. An anatomical and morphological study of *Datiscaceae*. *Aliso* 8 (1973) 49-110, 139 fig.

Relationships with Begoniaceae and Haloragaceae discussed. New range maps. Dioecism may be a response to insular situations.

----- Anatomy of xylem and phloem of the *Datiscaceae*. *Natur.Hist.Mus.Los Angeles County Contr. in Sc.* no 280 (1976) 1-28, 39 fig.

DAVIES, F.G. The genus *Gynura* (Compositae) in Malesia and Australia. *Kew Bull.* 35 (1981) 711-734, 6 fig., 1 pl., 1 map.

Key to 19 species (1 unnamed, 1 introduced), several new (Celebes 1, Lesser Sunda Is. 5, New Guinea 1). Most species have a restricted distribution.

DAVIS, T.A., H. SUDASRIP & H. AZIS, Bulbil-shoot production from clonally propagated coconuts. *Principes* 25 (1981) 124-129, 5 fig. Experiments on 22 bulbils at Manado Exper. Station.

DAWSON, J.W. The species rich, highly endemic serpentine flora of New Caledonia. *Tuatara* 25 (1981) 1-6, 5 fig., 1 tab. Interesting data on bedrock-plant relations.

DESHPANDE, U.R. Transfer of two Indian grasses to *Dichanthium* Willemet. *Bull.Bot.Surv.India* 21 (1979; publ. 1981) 198.

DÍAZ-MIRANDA, D., D. PHILCOX & P. DENNY, Taxonomic clarification of *Limnobiium* Rich. and *Hydromystria* G.W.F. Meyer (Hydrocharitaceae). *Bot.J. Linn.Soc.* 83 (1981) 311-323, 6 fig.

New name for a common ornamental waterplant, *Hydromystria laevigata* (H. & B. ex Willd.) Diaz-Miranda & Philcox, comb.nov.

- DICKISON,W.C. *Contributions to the morphology and anatomy of Strasburgeria and a discussion of the taxonomic position of the Strasburgeriaceae.* Brittonia 33 (1981) 564-580, 44 fig.
New Caledonian family, an old offshoot of Thealean stock, adjacent to Ochnaceae.
- DILLENBURG,C.R. *Proposal to conserve the tribal name Psychotrieae (1873) over Psathureae (1829) (Rubiaceae).* Taxon 30 (1981) 659-660.
- DIXIT,B.K. & G.PANIGRAHI, *Brachycaulos (Rosaceae) a new genus from India.* Bull.Mus.Natn.Hist.Nat.Paris 4e sér., 3 (1981) sect. B, Adansonia no 1: 57-60, 1 pl.
Key to 6 genera, 1 monotypic and new from Sikkim.
- *DJAPILUS,A. & H.SUHAENDI, *Preliminary research on germination capacity and the effect of site factor to seedling growth of Agathis macrophylla (Lindl.) Mast. in West Java.* Lembaga Penelitian Hutan, Bogor, Laporan no 359 (Dec. 1980) 37 pp. mimeogr., 4 phot., 7 tab. In Indonesian, with English summary.
Seedling growth is superior to that of A. loranthifolia; a promising species.
- DRANSFIELD,J. *On the identity of Sika in Palawan, Philippines.* Kalikasan 9 (1980) 43-48.
New record of Calamus caesius Bl. and three other rattans.
- *Calamus nielsenii Dransfield (Palmae).* Kew Bull. 35 (1981) 843-845, 1 fig.
From Mulu National Park, Sarawak.
- *A synopsis of the genus Korthalsia (Palmae: Lepidocaryoideae).* Kew Bull. 36 (1981) 163-194, 2 fig.
Revision; synopsis; key to 25 species (2 new).
- *The genus Dinochloa (Gramineae-Bambusoideae) in Sabah.* Kew Bull. 36 (1981) 613-633, 8 fig.
Key to 7 species (6 new).
- & J.P.MOGEA, *A reassessment of the genus Lophospatha Burret.* Principes 25 (1981) 178-180, 3 fig.
Lophospatha (a Bornean endemic monospecific genus) reduced to Salacca (1 new specific name).
- DUDLEY,T.R. *Two new variants of Ilex (Aquifoliaceae) from Eastern Asia (China) and the Philippines.* Feddes Rep. 91 (1980) 577-579.
1 new form, 1 new variety.
- *DUKE,J.A. *Handbook of legumes of world economic importance (1981) — Reviewed on page 3790.*
- DUTTA,A. & A.A.ANSARI, *Cuscuta campestris Yuncker (Cuscutaceae), a new pest of economic crops in India, its distributional and host record.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 202-203.

- DY PHON, P. *Taxons nouveaux pour la flore de l'Indochine.* Bull. Mus. Natn. Hist. Nat. Paris 4e sér., 3 (1981) sect. B, Adansonia no 1: 111-119, 3 fig.
 3 new species of *Crotalaria*; notes on *Euchresta*, *Medicago*, *Paro-chetus*, *Gueldenstaedtia* and *Trifidacanthus*.
- EICHLER, H. *Daucus in Australia.* Aust. Syst. Bot. Soc. Newsletter no 29 (1981) 29-30.
 4 infraspecific taxa in *D. glochidiatus* in Australia; the species occurs also in Timor. Bequest for material.
- ESSIG, F.B. & B.E. YOUNG, *Palm collecting in Papua New Guinea. II. The Sepik and the North Coast. III. Papua.* Principes 25 (1981) 3-15, 16-28, 20 + 15 fig.
 Trip report with copious field observations.
- *EVERAARTS, A.P. *Weeds of vegetables in the highlands of Java* (1981) —
 Reviewed on page 3791.
- FACHRUROZI, Z. *Burahol (Stelechocarpus burahol (Bl.) Hk.f. & Th.) deodoran tempo dulu dan Masalah Pelestariannya.* Bul. Kebun Raya 4 (1980) 127-130, 3 fig. In Indonesian.
Annonaceae. Useful plant for cosmetics.
- FANG, Wen-pei, *Aceraceae.* Fl. Reipubl. Pop. Sinicae 46 (1981) iv-x + 66-273, 68 pl.
 Acer with 143 species.
- *----- (ed.) *Angiospermae: Dicotyledoneae: Hippocrateaceae, Salvadoraceae, Staphyleaceae, Icacinaceae, Aceraceae, Hippocastanaceae.* Fl. Reipubl. Pop. Sinicae 46 (1981) xi + 315 pp., illus.
 Treatments taken up under authors.
- *----- (ed.) *Flora Sichuanica. Tomus 1 (Spermatophyta).* Sichuan (1981) 509 pp., illus. In Chinese.
 Some 25 families treated; contains a number of new species.
- *FENG, Kuo-mei, Li-fang XIA & Xiang-hong DHU, *Yunnan Camellias - One hundred and six Reticulata cultivars and seventeen wild species.* Kunming Bot. Inst., Acad. Sin. — Japanese transl. supervised by Prof. T.Tuyama; Japan Broadcast Publ. Co. Ltd. Udagawa-cho, Shibuya-ku, Tokyo (1981) 207 pp., profusely illus, mostly col. phot.
 A magnificent, illustrated account, with notes on morphology, cultivation and propagation.
- *FEY, B.S. *Untersuchungen über Bau und Ontogenese der Cupula, Infloreszenzen und Blüten sowie der Embryologie bei Vertretern der Fagaceen und ihre Bedeutung für die Systematik.* Inaug. Diss. Zürich (1981) 198 pp., 100 fig.
 Large important ontogenetic morphological study; main hypothesis is the interpretation of the cupule+flowers as homologous with a single inflorescence.

FIGUERES, K.C. *Colocasia esculenta in the Pacific*. Aroideana 4 (1981) 25-30, 4 fig., 1 tab.
Semi-popular account.

FLENLEY, J.R. & K. RICHARDS (eds.) *The Krakatoa Centenary Expedition / Final Report* (1982) — Reviewed on page 3792.

FORMAN, L.L. *A revision of Tinospora (Menispermaceae) in Asia to Australia and the Pacific. The Menispermaceae of Malesia and adjacent areas*. X. Kew Bull. 36 (1981) 375-421, 5 fig.

23 species recognized (3 new); key; 9 spp. occur in Africa and Madagascar; morphology, phytochemistry (by Dr. Bisset).

FOSBERG, F.R. & J.E. CANFIELD, *Noteworthy Micronesian plants. 3 & 4. Micronesica* 16 (1980) 189-210.

Mixed lot of ferns and spermatophytes, several range extensions; mostly common plants.

----, M.V.C. FALANRUW & M.-H. SACHET, *Additional records of vascular plants from the northern Mariana Islands. 2. Micronesica* 16 (1980) 211-214.

Mixed records.

---- & M.-H. SACHET, *A new Sciaphila (Triuridaceae) from the Palau Islands*. Pac.Sci. 34 (1980) 25-27, 2 fig.

---- & ---- *Flora of Micronesia. 4. Caprifoliaceae-Compositae*. Smithson.Contr.Bot. no 46 (1980) 1-71, 1 map.

Caprifoliaceae, Campanulaceae, Goodeniaceae and Compositae. A sumptuous very elaborate account of botanically uninteresting plants, mostly weeds and introductions.

---- & ---- *Polynesian plant studies 6-18*. Smithson.Contr.Bot. no 47 (1981) 37 pp., 5 fig.

Partly nomenclatural, partly novelties from the Marquesas: Tricholaena in Pacific; new woody Oxalis, Claoxylon, Abutilon, Genistoma (3 new), Rauvolfia, Cyrtandras; studies on Terminalia catappa group; nomenclature in Leucas, Dichrocephala, Zehneria (Melothria), Myrsine and odd notes on other plants.

---- & ---- *Pavonia (Malvaceae) in the Society Islands*. Bull.Mus.Natn. Hist.Nat.Paris 4e sér., 3 (1981) sect.B, Adansonia no 1: 15-18. 2 species (one new), both probably extinct.

---- & ---- *Clarification of Hygrophila triflora (Acanthaceae)*. Baileya 21 (1981) 145-148, 1 fig.

H. triflora (Roxb.) Fosb. & Sachet, comb.nov.; synonymy of 2 other species of Hygrophila.

FRIIS, Ib, *A synopsis of Girardinia (Urticaceae)*. Kew Bull. 36 (1981) 143-157, 4 fig., 2 maps.

Revision; only 2 species in all; 1 endemic in Africa, the other widely from Africa to Malesia as G. diversifolia (Link) Friis comb. nov. Among excl. names new comb. in Laportea from SE. Asia & Japan.

*FURTADO,J.I. (ed.) *Tropical ecology and development / Proceedings of the 5th symposium on tropical ecology.* Internat.Soc.Trop.Ecol., Kuala Lumpur (1980) 1383 pp. in 2 parts. Offset from typescript. US\$ 70. The symposium was held in April 1979, with 392 papers in 18 sections. Some 10-20 papers are within our field. List of experts. Execution good.—M.J.

GADRINAB,L.U. & M.BELIN, *Biology of the green spots in the leaves of some dipterocarps.* Malays.For. 44 (1981) 253-266, 4 fig. Occurrence of darkgreen spots in some species; their anatomy; in Shorea pinanga they seem to be glands.

GAO,Cheng-zhi, *Species novae Lysimachiae e Guangxi.* Acta Phytotax.Sin. 19 (1981) 359-363, 4 fig. In Chinese. 4 new species of Lysimachia.

GEESINK,R. *Proposals to conserve Millettia W.& A. and revise the conservation of Pongamia Vent. (Leguminosae-Papilionoideae).* Taxon 30 (1981) 327-329.

*-----, A.J.M.LEEUWENBERG, C.E.RIDSDALE & J.F.VELDKAMP, *Thonner's analytical key to the families of flowering plants.* PUDOC Wageningen / Leiden Univ.Press The Hague (1981) xxvi + 232 pp. + phot. Thonner. For more information see pages 3397-3399.

GEORGE,A.S. *The genus Banksia L.f. (Proteaceae).* Nuytsia 3 (1981) 239-473, 111 fig. & maps. 71 species (10 new), 1 in Papua. Elaborate monograph.

GHOSH,R.B. *A taxonomic survey and systematic census of the Primula. Flora of Assam s.l.* Indian For. 106 (1980) 813-823. Key to sections; species listed.

GILLI,A. *Beiträge zur Flora von Papua-New Guinea. II. Dicotyledones.* Ann. Naturhist.Mus.Wien 83 (1980) 417-474.

See for Part I, on Musci, Pteridophytes and Conifers same journal (1977). Coll. H.C.Dosedla & A.Gilli, both anthropologists in Vienna. Contains new species in Parsonsia, Begonia, Viburnum, Cerastium, Nasturtium, Elaeocarpus (2), Rhododendron (2), Macaranga (2), Hypericum, Crotalaria, Melastoma, Pygeum, Rubus, Coelospermum, Galium, Gardenia, Mussaenda, Psychotria, Uncaria, Euodia, Saurauia (3), Astilbe, Pilea (2), and four new generic records for Malesia: Trochiscus n.sp. (Cruc.), Disaster n.g. n.sp. (Rhamnac.), Melachone n.g. n.sp. (Rub.), and Thelygonum n.sp. (Thelyg.). The Viburnum = Psychotria; Trochiscus = Nasturtium; Thelygonum = Nertera; Melachone = Amaracarpus; Disaster = Commersonia.

Obviously Gilli used Flora Malesiana for his identifications, but it is a pity that he did not sollicit the collaboration of specialists at Leiden and elsewhere. The collection is incorporated in the Museum Herbarium at Vienna.

----- *Pflanzengesellschaften in Papua-New Guinea.* Feddes Rep. 92 (1981) 293-302, 22 tab.

- *GOLDSTEIN,W. (ed.) *Rain forests* (1977) — Reviewed on page 3792.
- GÖLTENBOTH,F. *Tropische Wasserunkräuter. Problematik und Bekämpfungsmöglichkeiten am Beispiel des Rawa Pening Sees (Zentral-Java).* Jh.Ges.Naturkde.Württ. 135 (1980) 5-17, 6 Abb.
Outline of aspects; not clear whether the author worked in Java or only summarized literature; the latter is likely.
- GOVINDARAJALU,E. *Studies in Cyperaceae. XIX. Novelty in Lipocarpha: L. raynaleana and its vegetative anatomy.* Adansonia sér.2, 20/4 (1981) 369-375, 2 pl.
Key to 3 species (1 new from India).
- *GRAY,H. *Christmas Island - Naturally. The natural history of an isolated Oceanic island. The Australian Territory of Christmas Island, Indian Ocean.* Howard Gray, P.O.Box 1559, Geraldton, Western Australia (1981) 133 pp., 138 fig. & maps, mostly in col. Aus\$ 12.50.
A charming, beautifully illustrated, instructive booklet describing in easy terminology the physiography, geology, and history, with notes on vegetation and largely the fascinating zoology of this island (c. 350 km S of West Java), famous for its phosphate mining. The book is mostly intended for the local inhabitants; it illustrates its resources and the uncertain future as mining operations will be finished about 1988. Considerations on conservation of the rather unique biocoenosis, harbouring an unexpected number of endemic organisms. A marvellous asset.—v.St.
- GREY-WILSON,C. *Notes on African Violaceae.* Kew Bull. 36 (1981) 103-126, 7 fig., 2 tab.
Revision; in Hybanthus enneaspermus 7 varieties; in some Rinoreas many varieties and hybrids; Viola 3 species.
- *GROVES,R.H. (ed.) *Australian vegetation* (1981) — Reviewed on page 3793.
- GUNATILLEKE,C.V.S. & I.A.U.N.GUNATILLEKE, *The floristic composition of Sinharaja - a rain forest in Sri Lanka, with special reference to endemics and dipterocarps.* Malays.For. 44 (1981) 386-396, 4 fig., 5 tab.
- HAEGI,L. *A conspectus of Solanaceae tribe Anthocercideae.* Telopea 2 (1981) 173-180.
Key to 7 genera (1 new generic name); no keys to species; several new combinations.
- HALLÉ,F. & F.S.P.NG, *Crown construction in mature dipterocarp trees.* Malays.For. 44 (1981) 222-233, 6 fig.
Structure and evolution of the mature crown.
- HALLÉ,N. *Données nouvelles et carpogrammes d'Orchidées canaques.* Adansonia sér.2, 20/4 (1981) 353-368, 9 pl.
From New Caledonia. Cross sections are drawn of 146 species in 87 genera, and a formula is given for their characters. Some new species.

- *Révision des Hippocrateae (Celastraceae): 2. Le genre Pristimera Miers en Afrique et en Indonésie.* Bull. Mus. Natn. Hist. Nat. Paris 4e sér., 3 (1981) sect. B, Adansonia no 1: 5-14, 2 pl.
Subdivision in 3 subgenera (1 new, Beccariantha for one species which Ding Hou had under Reissantia).
- HALLER,M. *Come see! Cyrtostachys lakka.* Fairchild Trop. Gard. Bull. 36 (3) (1981) 15, 1 fig.
Palmae. Experience with cultivation in U.S.A., unsuccessful.
- HANNIBAL,L.S. *The Hawaiian and Pacific Crinums.* Plant Life, Amaryllis Year Book (1981) 104-106.
Comments on several species.
- HANSEN,C. & G.E.WICKENS, *A revision of Ochthocharis (Melastomataceae), including Phaeoneuron of Africa.* Kew Bull. 36 (1981) 13-29, 2 fig., 2 maps, 1 tab.
Phaeoneuron Gilg reduced to Ochthocharis. Key to 7 species, some new combinations.
- HARTLEY,T.G. *A revision of the genus Tetradium (Rutaceae).* Gard. Bull. Sing. 34 (1981) 91-131.
Pinnate-leaved segregate of Euodia; contrasted with Euodia and Melicope. Key to 9 species (1 new), others new comb. Ident. list.
- *HARTLEY,W. *A checklist of economic plants in Australia.* Melbourne, CSIRO Bull. no 272 (1979) 1-214.
- *HARUN,W.K. & I.G.M.TANTRA, *Flora of the extension area of Teitei Batti Game Reserve Siberut, Mentawai islands.* Lembaga Penelitian Hutan, Bogor, Laporan no 358 (Dec. 1980) 26 pp. mimeogr., 3 maps.
In Indonesian, with English summary. W. of Sumatra; total of 62 tree species (51 genera); hilly part of reserve dominated by 5 dippterocarps.
- *----- & ----- *Inventarisasi flora Suaka Margasatwa Kerumutan, Riau (Floristic inventory of Kerumutan Game Reserve, Riau).* Balai Penelitian Hutan, Bogor, Laporan no 374 (Sept. 1981) 13 pp. + Appendices. In Indonesian.
Forest composition.
- HASHIMOTO,T. *A new species of the genus Dendrochilum Bl. (Orchidaceae) from the Philippines.* J.Jap.Bot. 56 (1981) 335-338, 2 fig.
- HAWKESWOOD,T.J. *The genus Planchonia Blume in Australia.* Aust. Plants 11 (1981) 178-182, illus.
Details on P. careya.
- HENRY,A.N. *A new Memecylon L. (Melastomataceae) from Tamil Nadu, India.* J.Bombay Nat.Hist.Soc. 77 (1980) 492-493, 1 fig.
From S. Deccan, near M. hookeri.
- & M.S.SWAMINATHAN, *Rediscovery of Rhynchosia velutina Wight & Arn. (Papilionaceae) and Toxocarpus beddomei Gamble (Asclepiadaceae).* Bull.Bot.Surv.India 21 (1979; publ. 1981) 227-229, 2 fig.

- *HENTY,E.E. *Harmful plants in Papua New Guinea*. Bot.Bull.Div.Bot.Dept.For. P.N.G. 12 (1980) 153 pp., 78 fig., 20 pl. Some 225 species with brief description, range, and account of toxicity. Partly based on Everist's book for Queensland (1974, see page 2621), partly on actual observation. Drawings rather clear, photographs rather dull.
- HEPPER,F.N. *Lemnaceae*. Rev.Handb.Fl.Ceylon New Delhi 2 (1981) 397-402, 1 fig.
- HIDAJAT,E. *Kaktus sebagai tanaman hias*. Bul.Kebun Raya 4 (1979) 5-8, 1 fig. Cacti as ornamental plants.
- *Papalaan (Eriobotrya japonica Lindl.)*. Bul.Kebun Raya 4 (1979) 93-95, 1 fig. In Indonesian; English summary. Rosac. Cultivation and uses.
- *Sifat-sifat semai pohon kemboja (Plumeria spp.)*. Bul.Kebun Raya 4 (1980) 145-148, 3 pl. Seedling description of Plumeria.
- *HIEPKO,P. & W.SCHULTZE-MOTEL, *Floristische und ethnobotanische Untersuchungen im Eipomek-Tal, Irian Jaya (West-Neuguinea), Indonesien*. 7.Beitr.z.Schriftenreihe Mensch,Kultur u.Umwelt im Zentralen Bergland von West-Neuguinea; Reimer, Berlin (1981) 75 pp., 44 phot. (23 in col.). DM 105. Very full account of vegetation and cultivation in the sparsely inhabited Eipomek valley, Central Irian. Concise introductory chapters; large commented name list (alphabetical by families); of collections made (mosses, ferns, conifers, angiosperms); one new liverwort described by Grolle. Many collections identified by specialists; wide attention to ethnobotany, uses of plants, etc. Vernacular name list; bibliography; index. A very expensive work.
- HILLIARD,O.M. & B.L.BURTT, *Some generic concepts in Compositae - Gnaphaliinae*. Bot.J.Linn.Soc. 82 (1981) 181-232, 12 fig. Definition Gnaphalium, Helichrysum, etc. Mostly African concept assemblages; recognition of Pseudognaphalium Kirpichnikov, to which belong some 50 spp. and also the Asian P. hypoleucum (DC.) comb.nov. and several Chinese spp. next to P. luteo-album (L.) comb.nov. Important characters used are vascularisation types of involucral bracts, ratio male/female flowers, hair types on achenes.
- & ----- *Names in Gnaphalium, Xeranthemum and Helichrysum published between 1753 and 1800*. Bot.J.Linn.Soc. 82 (1981) 233-265, 2 fig. Large list; evaluation of names; in an appendix the identification of specimens in the Linnean herbarium, and in another the evaluation of plates in Burman's Rar.Afr.Pl. (1737-1739).
- HILU,K.W. *Taxonomic status of the disputable Eleusine compressa (Gramineae)*. Kew Bull. 36 (1981) 559-563, 1 fig., 1 tab. This grass from NW.India & Pakistan transferred to Ochthochloa.

HOLMES,W.C. *Mikania (Compositae) of the United States.* Sida 9 (1981) 147-158, 6 fig.
3 species, incl. *M. cordifolia*; key.

Hong Kong popular books — See page 3741.

HOTTA,M. A new genus of the family Araceae from West Sumatra. Acta Phytotax. Geobot. 32 (1981) 142-146, 2 fig.

A monotypic new genus (*Furtadoa sumatrensis* Hotta) closely allied to *Homalomena* (same chromosome no.), from W. and S. Sumatra. Wrongly referred by me in 1932 to *H. pygmaea* (Trop. Binnengewässer vol.3: 291, 362).—v.St.

HOU,Ding, *Florae Malesianae Praecursores. LXII. On the genus Thottea (Aristolochiaceae).* Blumea 27 (1981) 301-332, 72 fig.

Revision; 16 species keyed out, 8 new, 8 new comb. because *Apama* is reduced to *Thottea*. SEM features of leaves, seeds and flowers; 8 other species not in the census. The new species have some remarkable male structures.

HOWCROFT,N.H.S. Contributions to the Orchid Flora of the Araucaria forests in New Guinea. 2. *Neuriedia veratrifolia* Bl. and *Apostasia wallichii* R.Br. ex Wall. The Orchadian 6 (1980) 234-237, 4 fig., 2 maps.

----- *Dendrobium wulaiense*, a new species of section Ceratobium from West New Britain Province, Papua New Guinea. The Orchadian 6 (1981) 284-285, 1 fig.

----- Contributions to the Orchid Flora of the Araucaria forests in New Guinea. 3. *Diplocaulobium auricolor* (J.J.Smith) A.D.Hawkes. The Orchadian 7 (1981) 6-7, fig., map.
Description; habitat; synonymy.

HSU,Ping-sheng & Lin-chu LI, Critical notes on the classification of the *Liriope muscari* complex. Acta Phytotax.Sin. 19 (1981) 456-461, 3 fig. In Chinese.
New var. of *L. muscari*.

HSU,Ting-zhi, Preliminary study of classification on Chinese *Gaultheria*.
Acta Bot. Yunnanica 3 (1981) 417-434, 4 fig. In Chinese.
Key to 24 species (3 new).

----- *Staphyleaceae*. Fl.Reipubl.Pop.Sinicae 46 (1981) ii + 16-37, 291, 6 pl.
22 species (1 new) in 4 genera; 3 new varieties.

HSU,Yong-chong, Cong-jiao WANG, Cheng-yeh WU & Hsi-wen LI, *Trigonobalanus Forman*, a new recorded genus of Fagaceae in China. Acta Bot.Yunnanica 3 (1981) 213-215.
T. doichangensis (Camus) Forman now also found in Yunnan, at 1080 m.

HUANG,Xiu-lan & Hsi-wen LI, Notes on *Salvia Linn.* in China. Acta Phytotax.Sin. 19 (1981) 245-249, 1 fig. In Chinese.
Labiatae. Key to 4 species (1 new).

- HUNT, D.R. *Rhododendron rugosum* (Eric.). *Curtis Bot. Mag.* n.s. 183 (1981) 69-71, 1 fig.; tab. 808.
From Mt Kinabalu.
- *Rhododendron impositum* (Eric.). *Curtis Bot. Mag.* n.s. 183 (1981) 97-98, 1 fig.; tab. 816.
From Central Celebes; white-flowered form.
- HUTCHINSON, I.D. on liberation thinning — See page 3765.
- HUYNH, Kim-lang & B.C. STONE, *On a new subsection of Pandanus section Cauliflora (Pandanaceae) with paniculate staminate inflorescence structure, distinctive leaf anatomy and pollen morphology*. *Bot.J.Linn. Soc.* 83 (1981) 213-220, 7 fig.
A new subsection for *P. halleorum* from New Hebrides.
- HWANG, Shu-me, *Materials for Chinese Aristolochia*. *Acta Phytotax.Sin.* 19 (1981) 222-231, 8 fig. In Chinese.
Description of several new species.
- *IGARASHI, S. *Papilionidae and their early stages* (1979) — See page 3748.
- THE INTERNATIONAL TREE CROPS JOURNAL — Reviewed on page 3794.
- IRAWATI, *Anggrek liar di Kebun Raya Bogor*. *Bul.Kebun Raya* 4 (1979) 9-23, 34 fig.
Wild species in the Botanic Gardens, Bogor.
- JACOBS, M. *Significance of the tropical rain forests on 12 points*. *Bio-Indonesia* no 7 (1980) 75-94, 4 fig.
Reprint of a paper to the 8th World Forestry Congress, summarized on pages 3219-3220.
- *Het tropisch regenwoud: de visie van een bioloog*. *Houtwereld* 34, no 6 (25 March 1981) 31-39, 12 fig. In Dutch.
How forest management aims at a decrease of non-commercial species, which is incompatible with conservation.
- *Dipterocarpaceae: the taxonomic and distributional framework*. *Malays.For.* 44 (1981) 168-189, 3 tab.
An overview of the family, compiled from Ashton's MS for Flora Malesiana and other literature, in which the history of our knowledge is concisely mentioned; species outside Malesia are tabulated; conclusions about the location of dipterocarp diversity and endemism tabulated; notes on ecology and altitude; retaining dipterocarp potential for the future; arguments for conservation.
- *----- *Het tropisch regenwoud / Een eerste kennismaking*. Coutinho, Muiderberg, The Netherlands (1981) 318 pp., c. 151 illus. Paperback.
Dfl. 48.50. In Dutch — See page 3574.
- JANARDHANAN, K.P. *Rediscovery of Rotala ritchiei (C.B.Clarke) Koehne (Lythraceae) after one hundred years*. *Bull.Bot.Surv.India* 21 (1979; publ. 1981) 230-231, 1 fig.

JARRETT, F.M. *Four new Artocarpus species from Indo-Malesia (Moraceae).*

Blumea 22 (1975) 409-410.

All from Borneo.

JAYAWEERA, D.M.A. *Apostasiaceae.* Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 1-3, 1 fig.

----- *Orchidaceae.* Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 4-386, 170 fig.

*JEFFREY, C. *The Cucurbitaceae of Eastern Asia.* Royal Bot.Gard., Kew (Dec. 1980) 60 pp. mimeogr.

A report on studies made during, and in connection with, a visit to China, Hong Kong and Japan in 1980. A most important checklist with full synonymy and occasional critical notes; distinct importance for Malesian species.

----- *Further notes on Cucurbitaceae. VI. Cucurbitaceae of the Indian subcontinent: Corrigenda.* 4^o (?1981) 6 pp. mimeogr.

Contains i.a. reduction of *Neoluffa* Chakr. to *Siraitia* Merr. and some transfers from *Gomphogyne* to *Hemsleya*. See also page 3663.

*JOHNS, R.J. & A.HAY, *A students' guide to the Monocotyledons of Papua and New Guinea.* Papua New Guinea For. College, Training Manual vol. 13 (1981) 89 pp., 36 drawings, mimeogr. Printed by Office of Forests, Papua New Guinea at Lae.

Intended to be a generic Flora of Monocots of which this is the first part. In several genera a key to the species. Of each genus a summary descr., ecology, and notes on uses etc. In each family a key to the genera and a family description. The largest treatment in this part is Araceae; also note Philesiaceae.

JOHNSON, R.W. (ed.) *Ann.Report Queensl.Herb.* (1979-1980) 40 pp.

Contains some new generic or specific records for Australian flora: *Crudia papuana* Kosterm., *Eremochloa ciliaris* (L.) Merr., *Perotis indica* (L.) O.K., *Brownlowia argentata* Kurz.

*----- & P.GOODCHILD, *Current plant taxonomic research on the Australian flora 1980-1981.* Queensl.Dept.Prim.Indus.Misc.Publ. 81/0015 (Aug. 1981) 125 pp.

Groups containing Australian taxa, arranged by families and by institutes (with cross references); includes also workers outside Australia.

JONES Jr, S.B. *Synoptic classification and pollen morphology of Vernonia (Compositae: Vernonieae) in the Old World. II.* Rhodora 83 (1981) 59-75, 1 fig.

Sections and subsections, several new.

JUDD, W.S. *A monograph of Lyonia (Ericaceae).* J.Arnb.Arzb. 62 (1981) 129-209, 30 fig., 14 maps; to be concluded.

Key and description of 35 species (51 taxa); genus in SE.-E.Asia (incl. Malaya), Greater Antilles and E. USA and Mexico.

KIEW,R. & L.MOHAMED, *First record of leaf cuttings under natural conditions in Phyllagathis (Melastomataceae)*. Malayan Nat.J. 34 (1981) 131-134, 2 fig.

P. griffithii King & P. rotundifolia Bl.; roots formed from midrib of rotting leaves followed by shoot production; a single leaf sometimes produced 3 buds. This remarkable type of vegetative reproduction was not reported from any Melast.

*KIGER,R.W., T.D.JACOBSEN & R.M.LILLY (comp. & eds.) *International Register of Specialists and Current Research in Plant Systematics*. Hunt Inst.Bot.Docum.Pittsburgh (1981) 346 pp.

Botanists with addresses and their special fields of research, alphabetically; matter also arranged by cross indexes geographically and by plant names. In scanning these names it appeared that several dozens fail because unfortunately many botanists did not answer the questionnaires. A pity, as the attempt is a laudable one, useful for every botanist.

KIRKMAN,L.K. *Taxonomic revision of Centratherum and Phyllocephalum (Compositae: Vernonieae)*. Rhodora 83 (1981) 1-24, 12 fig.

Centratherum supposed to consist of two separate lineages derived from the Vernonia complex, as evidence by pollen structure, chromosomes and trichome type, Centratherum s.str.; they exclude each other also geographically. Phyllocephalum Bl. reinstated: 2 spp. in India, 1 in Java. Centratherum: 1 sp. in New World, Australia and Philippines, 1 in South America. Some new comb. of spp. and subsp.

KIRKPATRICK,J.B. *Vegetation of the Sigatoa sand dunes, Fiji*. New Zeal.J. Bot. 19 (1981) 285-297, 7 fig.

Cross sections, niches, patch vegetation; plant list; role of aliens. Closed forest in all stable sands.

KITAMURA,S. *On three composite species of Nepal*. Acta Phytotax.Geobot. 32 (1981) 139-141.

2 new species and a variety of Eupatorium cannabinum, which occurs also in Formosa.

KOSTER,J. & P.BAAS, *Comparative leaf anatomy of the Asiatic Myristicaceae*. Blumea 27 (1981) 115-173, 10 fig., 38 phot., 5 tab.

60 species of 4 genera described anatomically; hair types important for classification; in many species the rare phenomenon of alveolar substance overlying the cuticle, hitherto only known in Winteraceae. Leaf anatomy characteristic for the 4 genera. The often xeromorphic structure in the mesic ecology of the family is curious.

KOSTERMANS,A.J.G.H. *An interesting new species of Persea Miller (Lauraceae) from the Kadoorie Botanic Gardens, New Territories, Hong Kong*. J.S.Afr.Bot. 47 (1981) 109-120, 12 fig. (of which 9 in col.phot.). Persea kadooriei.

- *Notes on Spondias L. (Anacardiaceae)*. Quart.J.Taiwan Mus. 34 (1981) 105-111.
S. pinnata kept for Indian species; what was called for Malesia so = *S. malayana* Kosterm. n.sp. Key to Ceylon species (3, one new).
- *The Ceylonese species of Balanocarpus Bedd.* (Dipterocarpaceae). Bull.Mus.Natn.Hist.Nat.Paris 4e sér., 3 (1981) sect. B, Adansonia no 2: 173-177.
Key to 2 species (1 new).
- KOVANDA,M. & J.CHALLICE, *The genus Micromeles revisited*. Folia Geobot. Phytotax. Praha 16 (1981) 181-193, 3 fig., 1 tab.
Allied to Raphiolepis and distinct from Sorbus; general review of genus; chemotaxonomy; 6 species examined, 3 transfers from Sorbus.
- KOYAMA,H. *Taxonomic studies in the Compositae of Thailand 1*. Acta Phytotax.Geobot. 32 (1981) 56-67, 4 fig.
Key to genera of tribes Mutisieae and Cardueae; critical notes on various species of 5 genera.
- KOYAMA,T. *Further notes on the Cyperaceae of Ceylon*. Bot.Mag.Tokyo 93 (1980) 341-354, 5 fig.
6 species discussed; new Carex; some new subspecies.
- KRUIF,A.P.M.de, *A revision of Holarrhena R.Br. (Apocynaceae)*. Meded.Landbouwhogesch.Wageningen 81-2 (1981) 1-40, 5 fig., 5 maps, 2 phot.
Several reductions; key to 4 species: 1 from Africa to India, 1 in Africa, 1 in Ceylon; 1 in Indochin. Peninsula and Malaya.
- KUIJT,J. *Miscellaneous mistletoe notes, 1-9*. Brittonia 32 (1980) 518-529, 21 fig.
On American mistletoes; Viscum chilense is a Korthalsella but hails from the East Pacific, the genus is unknown from the New World.
- *Inflorescence morphology of Loranthaceae - An evolutionary synthesis*. Blumea 27 (1981) 1-73, 27 fig.
Concerns both New and Old World groups.
- KULKARNI,B.G. & N.P.SINGH, *Two noteworthy plants from Maharashtra State*. Bull.Bot.Surv.India 21 (1979; publ. 1981) 212-213.
Hedyotis pinifolia, *Rotala leptopetala*; keys with allied species.
- LAMB,A. *The wild orchids of Sabah. 3. The Scorpion orchids*. Nature Maly-siana 5, no 4 (1980) 4-13, col.illus.
Notes on 6 Arachnis species; their importance for breeding.
- LAN,Yong-zhen & Tai-yien CHEO, *Taxa nova generis Loxostemon familiae Cruciferum sinicarum*. Bull.Bot.Research (Harbin, China) 1, no 3 (1981) 52-58, 2 pl.
6 species listed (2 new); a split from Cardamine.
- LANDOLT,E. *Key to the determination of taxa within the family of Lemnaceae*. In: E.Landolt (ed.) Biosystematische Untersuchungen in der Familie der Wasserlinsen (Lemnaceae). Vol. 1. Veröff.Geobot.Inst.

- ETH, Stift.Rübel Zürich Heft 70 (1980) 13-21, 3 fig.
Complete key to the 35 species in the family (4 genera). No descr.
- *Description of six new species of Lemnaceae*. In: Ditto 22-29, 6 fig.
3 species from the New World, 1 from Africa, *Lemna japonica* from Japan, *Wolffia angusta* from New South Wales.
- *Bibliographie der Familie der Lemnaceae*. In: Ditto 142-204.
- LARSEN,K. *The genus Chenopodium in Thailand*. Thai For.Bull. 13 (1980) 34-36, 1 map.
1 East Asian species appears native: *C. ficifolium* ssp. *blomianum*.
- *Notes on some species of Achasma (Zingiberaceae)*. Nordic J.Bot. 1 (1981) 45-47, 1 map.
6 species treated (2 new comb.).
- & S.S.LARSEN, *Notes on the genus Bauhinia in Thailand*. Thai For. Bull. 13 (1980) 37-46, 1 map.
Extensive synonymy and infraspecific taxa of *B. glabrifolia*, *B. ornata* and *B. viridescens*; the latter widely disjunct also in Lesser Sunda Islands.
- *----- , S.S.LARSEN & J.E.VIDAL, *Légumineuses-Césalpinioïdées*. Fl.Camb. Laos et Viêt-Nam no 18 (1980) 227 pp., 36 pl.
Important revision; some 100 species in all, *Bauhinia* (sens.lat.) 40 spp., *Caesalpinia* 19, *Cassia* 18; in all 22 genera.
- LAURIE,A. *Morowali Nature Reserve* (1980) — See page 3762.
- LAVARACK,P.S. *Notes on Queensland Orchidaceae. 2*. Austrobaileya 1 (1981) 380-384, 1 fig.
Habenarias reduced to *Peristylus*; n.sp. in Cadetia and Malaxis.
- *Notes on Peristylus and Habenaria in Queensland*. The Orchadian 7 (1981) 9-10.
Synonymy of 3 species. *Habenaria sumatrana* reduced.
- LAZARIDES,M. *The genus Leptochloa Beauv. (Poaceae, Eragrostideae) in Australia and Papua New Guinea*. Brunonia 3 (1980) 247-269, 2 fig.
Key to 10 species (7 from Australia, 3 from New Guinea; 1 new Australian species); some reductions; identification list.
- *Aristida L. (Poaceae, Aristideae) in Australia*. Brunonia 3 (1980) 271-333, 1 fig.
Key to 47 species (2 also in New Guinea); identification list.
- *LEAR,R. & T.TURNER, *Mangroves of Australia*. Univ.Queensl.Press (1977) 84 pp., 50 fig., illus. key.
Popular account.
- LEE CHEW KANG, *Hill coconut*. Nature Malaysiana 5, no 4 (1980) 24-25, col. illus.
Notes on *Curculigo villosa* (Amaryllidaceae).

- *Lantana*. *Nature Malaysiana* 6, no 1 (1981) 4-7, col.illus.
Account of the 3 species.
- *Asystasia*. *Nature Malaysiana* 6, no 2 (1981) 14-17, col.illus.
Pictures of 2 species; ecological notes.
- LEENHOUTS, P.W. *Taxonomic notes on Glenniea (Sapindaceae)*. *Blumea* 22 (1975) 411-414, 1 fig.
Reductions of *Crossonephelis*; 8 species, new combinations.
- *A new Fagraea (Loganiaceae) from Celebes, Indonesia*. *Blumea* 27 (1981) 209-210.
- *A new Canarium (Burseraceae) from Batjan I., Moluccas, Indonesia*. *Blumea* 27 (1981) 211-212.
- LEUSSINK, J.A. *A short history and bibliographical analysis of the journal Flora (Regensburg) (Vol. 1-71, 1818-1888). Part I. The editors*. *Taxon* 30 (1981) 375-392.
- LI, Hsi-wen, *Two new recorded genera of Hypericaceae in Yunnan Province - Ascyrum L. and Triadenum Raf.* *Acta Bot. Yunnanica* 3 (1981) 329-331, 1 fig. In Chinese.
2 species of *Hypericum*.
- , Te-lin WU & Sen-jen CHEN, *Musaceae*. *Fl. Reipubl. Pop. Sinicae* 16 (2) (1981) 1-19, 5 pl. In Chinese.
Key to 3 genera; 9 *Musa* species.
- LI, Yan-hui, *Some new species of the genus Garcinia from South China*. *Acta Phytotax. Sin.* 19 (1981) 490-499, 6 fig. In Chinese.
Guttiferae. 6 new species.
- LI, Ya-ru, *Some new taxa of Aquifoliaceae and Celastraceae from Xizang*. *Acta Bot. Yunnanica* 3 (1981) 351-357, 6 fig. In Chinese.
4 new species of *Ilex* and *Euonymus*.
- * LIN, Tsan-piao, *Native orchids of Taiwan*, 2 vol. (1967/1977) — Reviewed on page 3794.
- LIOU, Ming-yuan, *Study on narrow-leaved Gentian of South China*. *Bull. Bot. Research* (Harbin, China) 1, no 3 (1981) 59-69, 7 fig.
- LIU, Tang-shui & Ming-jou LAI, *Addenda to the Flora of Taiwan (II)*. *Quart. J. Taiwan Mus.* 33 (1980) 245-252.
Several name changes through new identifications and reductions for 43 species; also new records.
- LIU, Yu-lan, *Revision of Ehretia dicksonii Hance specific name in our country*. *Bull. Bot. Lab. North-East. Forest. Inst.*, Harbin, China no 9 (1980) 69-73.
Reduced to a new variety of *E. macrophylla* Wall.
- *New taxa of Cynoglossum L. from China*. *Acta Phytotax. Sin.* 19 (1981) 519-520. In Chinese.
Borag. 1 new species, 1 new variety.

- LORD, E.M. *Cleistogamy: a tool for the study of floral morphogenesis, function and evolution.* Bot.Rev. 47 (1981) 421-449.
- * LÖTSCHERT, W. & G.BEESE, *BLV Bestimmungsbuch - Pflanzen der Tropen.* BLV Verlagsgesellschaft München/Wien/Zürich (1981) 236 pp., 274 phot. in col.
Popular; descriptions of 323 useful or ornamental plants.
- LUBIS, I. & S.SASTRAPRADJA, *Diosgenin in the Indonesian species of Costus.* Ann.Bogor. 7 (1980) 71-78, 4 fig.
Zingiberaceae. The 12 species differ in contents of this anti-conceptivum, richest being *C. rumphii* rhizomes; seeds may contain more.
- MACNAE, W. & F.R.FOSBERG, *Rhizophoraceae.* Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 487-500.
- MADISON, M. *Packing and shipping aroids.* Aroideana 4 (1981) 68-69.
Practical guide for shipping tubers, cuttings and seeds of Araceae from abroad.
- MAGUIRE, B. & J.A.STEYERMARK, *Pakaraimaea dipterocarpacea III.* Mem.N.Y. Bot.Gard. 32 (1981) 306-309, fig. 59.
New subspecies from Venezuela.
- MAJUMDAR, N.C. *Notes on Stellaria reticulivena Hayata.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 172-173, 1 fig.
A Formosan species in the Sikkim.
- & G.S.GIRI, *A new species of Maesa Forsk. (Myrsinaceae) from Meghalaya.* J.Bomb.Nat.Hist.Soc. 78 (1981) 149-151, 1 pl.
Allied to *M. ramentacea* DC.
- MALHOTRA, S.H. & S.MOORTHY, *On the identity of Barleria terminalis Nees.* Indian For. 107 (1981) 448-453, 2 pl.
Allied to *B. strigosa* (Acanth.).
- MALICK, K.C. & B.SAFUI, *Field characters of two species of Biophytum sensitivum & B. petersianum.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 209-210, 1 fig.
- MANNER, H. & H.LANG, *A quantitative analysis of the induced grasslands of the Bismarck Mountains, Papua New Guinea.* Sing.J.Trop.Geogr. 2 (1) (1981) 40-48, 1 fig., 7 tab.
Sociology; species list.
- MANOKARAN, N. *The nutrient contents of precipitation, throughfall and stemflow in a lowland tropical rain forest in Peninsular Malaysia.* Malays.For. 43 (1980) 266-289, 4 fig., 5 tab.
Details on nutrient cycle.
- *Survival and growth of rotan sega (*Calamus caesius*) seedlings at 2 years after planting. I. Line-planted in poorly drained soil.* Malays.Forester 44 (1981) 12-22.
Many data. Light is needed.

MATTES, P. *Eine Reise nach Palawan, und ein geheimnisvoller Frauenschuh: Paphiopedilum fowliei.* Die Orchidee 33 (1982) 38-42, 5 fig. (col.). Orchid hunting in Luzon and Palawan.

MATTHEW, K.M. *The urgent need of monographs in Indian taxonomic botany.* Indian J. For. 1 (1978) 319-328.

Thoughts about the facets connected with the project. Stresses the need of monographs.

*----- *An enumeration of the flowering plants of Kurseong, Darjeeling District, West Bengal, India.* Indian J. For., Add.Ser. II, Dehra Dun (1981) 130 pp.
Introductory chapters; 822 species listed.

*----- *Materials for a Flora of the Tamilnadu Carnatic* (1981) — Reviewed on page 3795.

MAURY-LECHON, G., A.M. HASSAN & D.R. BRAVO, *Seed storage of Shorea parvifolia and Dipterocarpus humeratus.* Malays. For. 44 (1981) 267-280, 5 fig., 1 tab.

MAXWELL, J.F. *Taxonomic notes on the tribe Dissochaeteae (Naud.) Triana (Melastomataceae).* Gard.Bull.Sing. 33 (1980) 312-327, 7 fig., 3 pl. Status of 38 species belonging to Diplectria, Dissochaeta, Neodissochaeta, Macrolenes, Creochiton and Pseudodissochaeta, incl. a new subtribe, and several new species and new combinations.

----- *A revision of the genus Pterandria (Melastomataceae).* Gard.Bull. Sing. 34 (1981) 1-90, 8 pl., 18 fig.

Key to 17 species (2 new); Kibessia reduced; heavy reductions in specific names; identification list.

McGLONE, M.S. & C.J. WEBB, *Selective forces influencing the evolution of divaricating plants.* New Zeal.J.Ecol. 4 (1981) 20-28.

The browsing-by-moa hypothesis is rejected; divaricates originated in open conditions during the harsh, near-treeless glacial periods of the Pleistocene as an adaptation to withstand abrasion by wind, desiccation and frost damage.

McKINNON, J. *National conservation plan for Indonesia* — See page 3759.

MEHROTRA, A. *A few rare Indian grasses.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 237-238.
4 species.

*MEIJDEN, R. van der, *Systematics and evolution of Xanthophyllum (Polygalaceae)* (1982) — Reviewed on page 3795.

*MERGEN, F. (ed.) *Tropical forests / Utilization and conservation* (1981) — See page 3757.

*MESSER, J. (ed.), *Rainforest habitat* (1981) — Reviewed on page 3796.

*MITCHELL, A.W. *Operation Drake* — See page 3762.

- MITRA, R.L. & L.K.BANERJEE, *The genus Bruguiera Lamk. (Rhizophoraceae) in India.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 142-150, 29 fig. 4 species keyed out and described.
- MOGEA, J.P. *Notes on Salacca wallichiana.* Principes 25 (1981) 120-123, 1 fig. Palmae. Details on botany and nomenclature. An unusual form is described from SE. Thailand.
- MOLDENKE, H.N. *Notes on the genus Paravitex (Verbenaceae).* Phytologia 47 (1981) 331-332. Monotypic; endemic to Thailand.
- *Notes on the genus Petraeovitex (Verbenaceae).* Phytologia 47 (1981) 332-358. Revision; key to 8 species; descr.; with minor alterations copied from Muniz's revision.
- *Notes on the genus Garrettia (Verbenaceae).* Phytologia 48 (1981) 121-125. Monotypic; compilation.
- *Notes on the genus Holmskioldia (Verbenaceae).* Phytologia 48 (1981) 313-356. Full account, but treatment preliminary, with artificial key (even incl. fossil species); 1 sp. native in India; often cultivated.
- *Notes on the genus Archboldia (Verbenaceae).* Phytologia 48 (1981) 386-387. Monotypic, from New Guinea; 1 specimen mentioned.
- *Additional notes on the genus Vitex. XVIII.* Phytologia 48 (1981) 413-419. Start of enumerating all species, with references.
- *Additional notes on the genus Vitex. XXII.* Phytologia 49 (1981) 432-469. Various notes, a.o. varieties of V. pinnata; some new records.
- *Notes on new and noteworthy plants. CLII.* Phytologia 49 (1981) 430-432. Teysmanniodendron subspicatum and Geunsia n.sp. and a new var. of G. hexandra from Sabah (Verben.).
- *Notes on the genus Geunsia.* Phytologia 50 (1981) 46-68 (contd). Verben. Incl. key to the species.
- MORAT, P. *Note sur les Graminées de la Nouvelle-Calédonie. VI. Lepturo-petium, genre nouveau endémique.* Adansonia sér.2, 20/4 (1981) 377-381, 1 pl.
- *Ibid. III. Révision des genres Brachiaria (Trin.) Griseb. et Panicum L. IV. Le genre Cyrtococcum Stapf en Nouvelle-Calédonie et aux Nouvelles-Hébrides. V. Présence en Nouvelle-Calédonie des genres Ottochloa Dandy, Entolasia Stapf et Eriochloa Kunth.* Candollea 36 (1981) 203-213, 215-217, 217-221, 1 carte.—No key; no novelties.

MORLEY, E.J. *The palaeoecology of Tasek Bera, a lowland swamp in Pahang, West Malaysia.* Sing.J.Trop.Geogr. 2 (1) (1981) 49-56, 3 fig., 2 tab. History of site (with 4500 years the swamp is recent); 2 borings; radiocarbon datings and pollen diagrams.

MORLEY, R.J. *Development and vegetation dynamics of a lowland ombrogenous peat swamp in Kalimantan Tengah, Indonesia.* J.Biogeogr. 8 (1981) 383-404, 15 fig.

On Sebangau River, S. Borneo, during maybe 5-6000 years; vicissitudes considerable. A former seasonal climate is suspected.

* MUELLER, F.von, *Descriptive notes on Papuan Plants.* Now available in a limited facsimile edition produced in 1979 by the Boerhaave Press, P.O. Box 1051, Leiden, The Netherlands. Dfl. 125. This very rare, but important issue was first published by the Government Printer, Melbourne, in 9 parts (1875-1890). The new edition is enhanced by the addition of an index to parts 6-9; in the original there was only an index to parts 1-5.

MUIR, T.B. *Dates of publication of Australian pharmacy journals in connection with taxonomy.* Muelleria 4 (1981) 385-387. Important for dating articles by F. von Mueller.

MULLER, J. *Palynological evidence for paleogene climatic changes.* Mém.Mus. Hist.Natur. n.s. Bot. 27 (1980) 211-218, 6 fig. The tropical flora modernized at the Eocene-Oligocene boundary. Latitudinal range of 6 Malesian types indicative of a warm climate are figured.

----- *Exine architecture and function in some Lythraceae and Sonneratiaceae.* Rev. Palaeobot. Palynol. 35 (1981) 93-123, 9 pl., 1 fig. Lagerstroemia and neotropical Crenea, Diplusodon and Lafoensia were studied, parallels with S. found. Some pollen may retain moisture and become sticky.

----- *Fossil pollen records of extant Angiosperms.* The Botanical Review 47 (1981) 1-142, 3 fig., 2 tab. Most important summary of the reliable fossil record in 139 families; arranged by orders; replaces his earlier account of 1970. See page 3742.

MURTI, S.K. *Two new records of species for Madhya Pradesh.* Bull.Bot.Surv. India 21 (1979; publ. 1981) 183-186, 2 fig. An Althaea and Lepidagathis.

MUSSELMAN, L.J. & C.PARKER, *Surface features of Striga seeds (Scrophulariaceae).* Adansonia sér.2, 20/4 (1981) 431-437, 3 pl., 1 tab.

* NAIK, V.N. *The Flora of Osmanabad.* Venus Publ., Aurangabad (1979). Rs. 60, £ 5, \$ 8.

Based on a doctoral thesis, this local Flora keys out 804 species; general chapters on habitat; bibliography.

- NAIR, K.K.N. A reassessment of the taxonomic position and status of *Aglaia bourdillonii* Gamble (Meliaceae) with notes on the nomenclature of related taxa. J.Bomb.Nat.Hist.Soc. 78 (1981) 425-426.
Reduced to a variety of *A. elaeagnoidea*; 2 others as well.
- & K.P.JANARDHANAN, Species of *Chionanthus* Sw. (= *Linociera* Sw.) (Oleaceae) in the Indo-Burmese region. J.Bomb.Nat.Hist.Soc. 78 (1981) 330-332.
20 taxa; some new combinations.
- NAIR, N.C. & R.ANSARI, *Malaxis rheedii* Sw., an earlier name for *M. versicolor* (Lindl.) Abeywickr. (Orchidaceae). Taxon 30 (1981) 475.
From India and Ceylon.
- , P.V.SREEKUMAR & V.J.NAIR, *Zenkeria jainii*, a new species of Poaceae from Kerala. J.Bomb.Nat.Hist.Soc. 78 (1981) 352-354, 1 pl.
- NAIR, V.J., A.N.SINGH & N.C.NAIR, *Spodiopogon jainii* V.J.Nair, A.N.Singh et N.C.Nair: a new grass from Madhya Pradesh, India. Curr.Sci. 50 (1981) 730-732, 1 pl.
Allied to *S. rhizophorus*.
- NAITHANI, H.B. *Broussonetia kämpferi* Sieb. & Zucc. and *Rhododendron obtusum* (Lindl.) Planch. new to Indian Flora. Indian For. 107 (1981) 585-588, 2 fig.
The first (Morac.) hitherto Sinojapanese, the latter (Eric.) from Japan and Burma.
- NARAYANA, B.M. A new species of *Centratherum* Cass. (Compositae) from South India. Curr.Sci. 50 (1981) 279-280, 10 fig.
- NASUTION, R.E. Perkarangan: Suatu tinjauan peranannya. Bul.Kebun Raya 4 (1979) 33-36. In Indonesian.
A home garden and its role.
- *Kebun Raya Cabang Purwodadi*. Bul.Kebun Raya 4 (1979) 105-108. In Indonesia; English summary. — See page 3751.
- NAYAR, M.P. *Entada pusaetha* DC. on the verge of depletion. Bull.Bot.Surv. India 21 (1979; publ. 1981) 229, 1 fig.
- & G.S.GIRI, Pittosporaceae. Fasc.Fl.Ind. 6 (1980) 1-15, 2 fig.
Key to 11 species (2 new); only *Pittosporum*; *P. ferrugineum* in common with Malesia.
- NG, F.S.P. Germination ecology of Malaysian woody plants. Malays.For. 43 (1980) 406-437, 5 fig., 1 tab., 1 appendix.
Germination data of 335 species.
- NG, N.Q., J.G.HAWKES & J.T.WILLIAMS, The recognition of a new species of rice (*Oryza*) from Australia. Bot.J.Linn.Soc. 82 (1981) 327-330, 1 fig.
In Darwin area; formerly confused with *O. sativa* f. *spontanea*; $2n = 2x = 24$.

NGUEN TIEN HIEP & G.P.YAKOVLEV, *The genus Sorbus (Rosaceae) in the Flora of Viet-Nam.* Bot.J.Soc.USSR 66 (1981) 1185-1191, 2 fig. In Russian.
Key to 8 species (1 new).

NGUYEN KHAC KHOI, *Conspectus specierum tribus Cypereae Nees (Cyperaceae) florae Vietnam. Nov.Syst.Pl.Vasc.* 18 (1981) 124-145. In Russian.
Genera and species listed.

NICOLSON,D.H. *Summary of cytological information on Emilia and the taxonomy of four Pacific taxa of Emilia (Asteraceae: Senecioneae).* Syst.Bot. 5 (1980) 391-407, 5 fig., 1 tab.
Key to 4 taxa (3 species); breeding system and cytology. Identification list.

----- *Proposal to conserve Hapaline Schott (1858) over Hapale Schott (1857) (Araceae).* Taxon 30 (1981) 494-495.
A rare Indo-Malesian genus.

----- & M.SIVADASAN, *Four frequently confused species of Typhonium Schott (Araceae).* Blumea 27 (1981) 483-497, 8 fig.
Key to 4 common species with their proper names (1 new sp.).

NIELSEN,I. *Légumineuses-Mimosoidées.* Fl.Camb.,Laos et Viêt-Nam 19 (1981) 1-159, 26 pl.
An important revision; taxonomy, amongst others inclusion of several sections of Pithecellobium in Archidendron following his treatment of Mimos. in Adansonia 19 (1979).

NIYOMDHAM,C. *Preliminary revision of tribe Sophoreae (Leguminosae-Faboidae) in Thailand: Ormosia Jacks. and Sophora Linn.* Thai For.Bull. 13 (1980) 1-22, 8 fig.
Key to 15 SE.Asian species of Ormosia (8 in Thailand); key to 6 species of Sophora (4 in Thailand).

NÔNG VÂN TIẾP, *Beiträge zur Sippensstruktur der Gattung Manglietia Bl.* (Magnoliaceae). Feddes Rep. 91 (1980) 497-576, 11 fig., 8 tab., 1 map, 3 pl.

Subdivision in 2 sections; 17 species; anatomical and morphological differences between the sections; differences between species tabulated per character; descr. of all species; specimens listed; key to 22 species; 1 new sect., 1 new sp. (from Yunnan). Phylogenetic considerations and ancestral tree for the species.

OGDEN,J. *Dendrochronological studies and the determination of tree ages in the Australian tropics.* J.Biogeography 8 (1981) 405-420, 10 fig., 6 tab.

Difficulties lead to approx. figures.

OHBA,H. *A revision of the Asiatic species of Sedoideae (Crassulaceae).* Part 2. *Rhodiola* (subgen. *Rhodiola* sect. *Rhodiola*). J.Fac.Sci.Univ. Tokyo, III Bot. 13 (1981) 65-119, fig. 43-68.
Species listed, figured and mapped.

----- *Additional notes on Burmese Sedoideae (Crassulaceae).* J.Jap.Bot. 56 (1981) 206-212, 2 fig., 1 tab. — 13 spp. of Rhodiola listed.

- OLDEMAN,L.R., I.LAS & S.N.DARWIS, *An agroclimatic map of Sumatra.* Contr. Centr.Res.Inst.Agric.Bogor no 52 (1979) 1-35, 10 fig., 9 tab., app. with 7 tab., + 2 maps in colour.
 Based on the ratio of dry months (less than 100 mm) and wet months (over 200 mm); for use of non-irrigated crops. To a certain extent reflecting conditions as appear from the rainy days scheme used in ecology. Interesting are the secluded inland dry valleys. Similar agroclimatic maps exist of Java and Sulawesi, which have escaped our attention, published in Contr. no 17 and 33 respectively.
- *OLDEMAN,R.A.A. (ed.) *Tropical hardwood utilization: Practice and prospects.* Nijhoff/Junk, Box 566, The Hague, The Netherlands (1982) xviii + 584 pp. Cloth. Fl. 265, US\$ 115.
 Account of a symposium with 40 often extended, rewritten contributions. The section on resources is dominated by the objectionable FAO-inventory (see pages 3423-3425); the other sections are devoted to trade and use, hence outside the scope of this Bulletin. On p. 33-34 a list of large-scale forest inventories is given, on p. 107-124 a report on lesser known woods in the Philippines, and on p. 97-105 a very interesting idea for a 'Life insurance for tropical hardwood resources' by R.A.A. Oldeman & J.H.A. Boerboom, to capitalize on the tree genetic stock. Botanical names hardly occur in the book. Production is top class. A fuller review is forthcoming in IAWA Bulletin later this year.—M.J.
- PAGE,V.M. *Dicotyledonous wood from the Upper Cretaceous of Central California. III. Conclusions.* J.Arnb.Ar. 62 (1981) 437-455, 1 map, 2 tab.
 Important summary of fossils from a critical age for Angiosperms; the intriguing feature is that one sample is identified as "Old World Winteraceae"; for many other slides tropical or Gondwanic identifications are given as alternatives (Monim., Cunon., Nothofagus, Escalloniac., Chrysobal., Sonner.).
- PANIGRAHI,G. & B.K.DIXIT, *A note on Potentilla wallichiana Del. ex Lehm. var. ternata Wolf (Rosaceae) from eastern India.* Bull.Bot.Surv.India 21 (1979; publ. 1981) 135-138, 1 pl.
 Key to P. khasiana Clarke and P. sundaica.
- & K.M.PUROHIT, *Studies on the systematics of Geum sikkimense and certain related taxa (Rosaceae).* Bull.Bot.Surv.India 21 (1979) 125-128, 15 fig.
 G. sikkimense split into 2 species; new subgenus proposed.
- PAO,Shih-ying, *Hippocrateaceae.* Fl.Reipubl.Pop.Sinicae 46 (1981) i + 1-14, 290-291, 3 pl.
 19 species (5 new) in 3 genera.
- *PATUNKAR,B.W. *Grasses of Marathwada.* Sci.Publ.Jodhpur, India (1980) xii + 300 pp., 86 fig. Rs. 100, US\$ 20.
 Keys; descr.; figures badly reproduced.
- PAUL,S.R. *Flora of Rajgir Hills, Bihar.* J.Bomb.Nat.Hist.Soc. 78 (1981) 16-37, 1 map. — Name list.

- PEDLEY, L. Further notes on *Acacia* in Queensland. *Austrobaileya* 1 (1981) 339-345.
Including species from Queensland.
- Notes on Leguminosae. II. *Austrobaileya* 1 (1981) 376-379.
Notes on *Pithecellobium*, *Atylosia* and *Nomismia*, with new combinations relating to Malesia.
- PEI, Sheng-ji & Yan-hui LI, A taxonomical problem of the genus *Maytenus Molina* and *Gymnosporia* (Wight & Arn.) Benth. & Hook.f. from China. *Acta Bot. Yunnanica* 3 (1981) 25-31. In Chinese.
Celastraceae. The congenery here proposed was already pointed out by Ding Hou in 1962. It is a pity that obviously some Chinese botanists have no access to Flora Malesiana. It would save them a lot of time.
- & ----- New materials for Yunnan *Maytenus Molina*. *Acta Bot. Yunnanica* 3 (1981) 239-248, 10 fig.
Celastraceae. Key to 12 species (10 new).
- PHENGKLAI, C. Taccaceae. *Thai For. Bull.* 13 (1980) 23-33, 5 fig.
Key to 5 species.
- PHILIPSON, M.N. Cotyledons and Rhododendron classification. Contributions toward a classification of Rhododendron. *New York Bot. Gard.* (1980) 75-88, 8 fig.
4 hair types; cotyledon venation; with both characters the major subdivisions of the genus are confirmed; sect. *Sciadorhodion* reinstated with some misplaced species from two other sections.
- PLAIZIER, A.C. A revision of *Catharanthus roseus* (L.) G. Don (Apocynaceae). *Med. Landbouwhogeschool Wageningen* 81-9 (1981) 1-12, 1 fig., 1 phot.
Native in Madagascar.
- PRAGLOWSKI, J.G. Transition within the exine of *Nothofagus* Blume. Rev. *Palaeobot. Palynol.* 32 (1981) 369-375, 1 pl.
Fagaceae. Details of 7 species, whole area.
- PRAKASH, V. First record of *Isachne kinabaluensis* Merr. (Poaceae) in India. *Bull. Bot. Surv. India* 21 (1979; publ. 1981) 180-182, 1 fig.
In the Khasya Hills.
- & B.G. KULKARNI, Notes on *Coelachne ghatica* Naik. *Bull. Bot. Surv. India* 21 (1979; publ. 1981) 220-221.
Reduced to *C. minuta* Bor.
- PRIMACK, R.B., N.C. DUKE & P.B. TOMLINSON, Floral morphology in relation to pollination ecology in five Queensland coastal plants. *Austrobaileya* 1 (1981) 346-355, fig. 12-16, 1 tab.
Detail studies on *Clerodendron inerme*, *Acanthus iliafolius*, *Lysiana subfalcata*, *Sesuvium*, *Sonneratia alba*.
- PUROHIT, K.M. & G. PANIGRAHI, A new species of *Geum* L. (Rosaceae). *Bull. Bot. Surv. India* 21 (1979; publ. 1981) 205-207, 1 fig.

- PYE, K. & B. JACKES, *Vegetation of the coastal dunes at Cape Bedford and Cape Flattery, North Queensland*. Proc.R.Soc.Qld. 92 (1981) 37-42, 1 fig., 1 tab., 1 pl.
Vegetation descr. and plant list.
- RABAKONANDRIANINA, E. *Infrageneric relationships and the origin of the Hawaiian endemic genus Lipochaeta (Compositae)*. Pac.Sci. 34 (1980) 29-39, 11 fig., 5 tab.
Chromosome and hybrid study from which is concluded that Lipochaete is derived from the Wedelia biflora group.
- & G.D.CARR, *Intergeneric hybridization, induced polyploidy, and the origin of the Hawaiian endemic Lipochaeta from Wedelia (Compositae)*. Amer.J.Bot. 68 (1981) 206-215, 17 fig., 6 tab.
Cytological data; hybridisation; ancestry of the genus probably in the Wedelia biflora group.
- RAIZADA, M.B. & S.S.R.BENNET, *Nomenclatural changes in some flowering plants*. Indian For. 107 (1981) 432-437.
New comb. in Indocourtoisia nom.nov. (split off Cyperus), Susilku-mara nom.nov. (Erianthera Bth., Lab.), Neotaeniopsis nom.nov. (Tae-niopsis Schltr, Orch.), new name in Agrostis, new combs. in Anise-lytron (Aulacolepis), many new combs. in Primula, Neohymenopogon nom.nov. (Hymenopogon Wall., Rub.), Indopolysolenia nom.nov. (Polysolenia Hook.f., Rub.), Aboriella nom.nov. (Smithiella Dunn, Urt.).
- RAMACHANDRA CHARY, S.T. & J.J.WOOD, *A new species of Habenaria (Orchidaceae) from India*. Kew Bull. 36 (1981) 235-237, 1 fig., 1 tab.
- RAMIREZ B., W. *Evolution of the monoecious and dioecious habit in Ficus (Moraceae)*. Brenesia 18 (1980) 207-215, 2 fig.
Process thought of monoecism to dioecism and back to monoecism discussed.
- RAO, A.S. & P.K.HAJRA, *Polypleurum stylosum (Wt.) J.B.Hall (Podostemaceae) in Kamrup District, Assam with taxonomic notes and a new combination*. Bull.Bot.Surv.India 21 (1979; publ. 1981) 192-195, 2 fig.
2 species treated.
- , S.R.RATHORE & S.C.SRIVASTAVA, *Didymoplexis pallens Griff., rediscovery of a rare saprophytic orchid in the Indian Botanic Garden, Howrah*. Bull.Bot.Surv.India 21 (1979; publ. 1981) 151-155, 2 fig.
- RAO, R.R. & M.K.V.RAO, *The genus Eupatorium Linn. (Asteraceae) in North-East India*. Proc.Indian Natn.Sci.Acad. B 46 (1980) 587-592, 6 fig.
Key to 8 species; several also in Malesia.
- RATHORE, S.R. *Ecological notes on Cymbidium aloifolium Sw. (Orchidaceae) in the Indian Botanic Garden, Howrah*. Bull.Bot.Surv.India 21 (1979; publ. 1981) 168-170, 1 pl., 1 tab.
- RAVI, N. *Species of Zornia Gmel. in South India*. Bull.Bot.Surv.India 21 (Bull.Bot.Surv.India 21 (1979; publ. 1981) 198-201, 1 fig.
Key to 3 species (Legum.).

- * RECHER, H.F. & S.S. CLARK on Lord Howe Island — See page 3761.
- REDDI, C.S. & A.J. BAI, *Floral biology of Mimusops elengi Linn.* J. Bombay Nat. Hist. Soc. 77 (1980) 471-475, 3 fig.
Sapotaceae, polygamous, wind-pollinated.
- REEVE, T.M. *Two new species of Dendrobium section Latouria from the mountains of Papua New Guinea.* The Orchadian 6 (1980) 223-226, 2 fig., 1 phot.
- *Miscellaneous notes on New Guinea orchids. No. 2.* The Orchadian 6 (1981) 286-287, 1 pl.
Notes on a Cleisostoma and 3 Dendrobiums.
- & J. RENZ, *Dendrobium mayandyi, ein neues Dendrobium von Neu-Guinea aus der Sektion Latourea.* Die Orchidee 32 (1981) 73-76, 3 fig.
Based on Carr 10547 and several NGF numbers.
- & P.J.B. WOODS, *Dendrobium delicatulum Kraenzl.* (Section Oxyglossum). The Orchadian 7 (1981) 18-21, 2 fig.
Synonymy, with many reductions; key to 3 new subspecies. Occurs from Celebes to Micronesia, New Guinea and the Solomon Islands.
- REID, J.A. *Violets at Cameron Highlands.* Malayan Nat. J. 34 (1980) 101-103.
Semi-popular reminiscences on 4 species (1 unnamed).
- RENOVIZE, S.A. *The sub-family Arundinoideae and its position in relation to a general classification of the Gramineae.* Kew Bull. 36 (1981) 85-102, 1 fig.
Based on leaf anatomy; tribes discussed; genus characters scored.
- REYNOLDS, S.T. *Notes on Sapindaceae in Australia. I.* Austrobaileya 1 (1981) 388-419, fig. 25-29.
Key to 8 species of Diploglottis (4 new spp.), 9 spp. of Atalaya (4 new), 3 spp. of Jagera (1 new), 8 spp. of Harpullia.
- & L. PEDLEY, *A revision of Atylosia (Leguminosae) in Australia.* Austrobaileya 1 (1981) 420-428.
Revision; key to 10 species (2 new).
- RIDSDALE, C.E. *A synopsis of the African and Madagascan Rubiaceae-Naucleaceae.* Blumea 22 (1975) 541-553.
Re-arrangement of genera, 2 new, many species excluded.
- RIEGL, H. *Families destroyed in World War II at the Vienna Herbarium (W).* Taxon 30 (1981) 727-728.
Most gymnosperms and monocots, plus the first 55 families of dicots in the Engler-Prantl sequence: families listed, Lauraceae being the last.
- & E. WECHTL, (662) *Proposal to amend the conservation of 1108 Cordyline Comm. ex Juss. (Liliaceae).* Taxon 30 (1981) 825-828.
- * ROLLET, B. *Bibliography on mangrove research, 1600-1975.* Unesco (1981) 479 pp.

Annotated titles (5608 numbered entries); author index; subject index. A very complete and accurate source of information which should be on the desk of anybody engaged with work on mangroves.

ROUANE, M.-L. & P. WOLTZ, *Intérêt des plantules pour la systématique et l'évolution des Araucariacées*. Bull. Soc. Hist. Toulouse 116 (1980) 120-136, 45 fig.

Types of seedlings.

RUAN, Yun-zhen, *On the Chinese species of Drosera L.* Acta Phytotax. Sin. 19 (1981) 339-344, 2 fig. In Chinese.
3 species (1 new).

SALARD-CHEBOLDAEFF, M. *Palynologie maestrichtienne et tertiaire du Cameroun. Résultats botaniques*. Rev. Palaeobot. Palynol. 32 (1981) 401-439, 1 sketch map.

Many Malesian genera noted.

SASAKI, S. *Storage and germination of Dipterocarp seeds*. Malays. For. 43 (1980) 290-308, 6 fig., 11 tab.

----- & F.S.P. NG, *Physiological studies on germination and seedling development in Intsia palembanica (Merbau)*. Malays. For. 44 (1981) 43-59, 6 fig., 6 tab.

Detail data on germination ecology (Legum.).

SASTRAPRADJA, S. *Food legumes in South East Asia*. BioIndonesia no 4 (1977) 45-56.

Present status of 14 important food legumes with comments. Perspectives.

----- , S. ADISOEMARTO, K. KARTAWINATA & R.C. TARUMINGKENG, *The conservation of forest animal and plant genetic resources*. BioIndonesia no 7 (1980) 1-42, 3 tab.

Reprint of contribution to 8th World Forestry Congress, summarized on page 3221.

----- & D. GANDAWIDJAJA, *Anggrek alam Indonesia yang mempunyai potensi budidaya*. Bul. Kebun Raya 4 (1979) 37-42, 2 fig.

Wild species with their cultural potentials.

SASTRE, C. *Recherche sur les Ochnacées. V. Essai de taxonomie numérique et schéma évolutif du genre Sauvagesia*. Sellowia 23 (1971) 9-51.

31 species recognized; several new comb.; Sauvagesia and Neckia reduced; 1 sp. in tropical Africa, 1 in Malesia. No key. Compare page 2289.

* SCHOLZ, U. *Monographie der Gattung Oplismenus (Gramineae)*. Phanerog. Monogr. Tomus XIII. J. Cramer, Vaduz (1981) 213 pp., 46 fig., 2 tab., 2 pl. Extensive morphology; world monography; key to 9 species, many infraspecific taxa; 3 species in Malesia.

* SCHWEINFURTH, U. c.s. (eds.) *Forschungen auf Ceylon II* (1981) — Reviewed on page 3796.

- * SEEBER, G., H.-J. WEIDELT & V.S. BANAG, *Dendrological characters of important forest trees from eastern Mindanao* (1979) — Reviewed on page 3796.
- * SEIDENFADEN, G. *Contributions to a revision of the orchid flora of Cambodia, Laos and Vietnam. I. A preliminary enumeration of all orchids hitherto recorded.* Fredensborg, Denmark (1975) 117 pp., 16 fig. Alphabetical, bibliographical list, with nomenclatural and taxonomical changes; a fair number of reductions. It is expected that the new revision will contain more than 750 species. The present list has 758 taxa. There are a few new names or new combinations.
- *Orchid genera in Thailand IX. Flickingeria Hawkes & Epigeneium Gagnep.* Dansk Bot. Ark. 34 (1980) 1-104, 40 fig., 14 col.phot. *Flickingeria* (22 spp.), *Epigeneium* (14 spp.) revised and keyed out. Magnificent photographs.
- * SELVARAJ, P. & Muhammad bin ABU BAKAR, *A checklist of plantation trials in Peninsular Malaysia.* Research Pamphlet FRI Kepong no 79 (1980) 100 pp. A basic name list; results are now checked.
- SESHAVATHARAM, V. *Embryology and phylogeny of the tribe Galegeae (Papilio-noideae).* Geophytology 10 (1980) 14-19, 2 tab. This very large tribe (65 genera, 3200 spp.) seems to be heterogeneous (chromosomes, embryology).
- SHA, Wen-lan, Jin-yu LUO, Xiu-xiang CHEN & Ching-yung CHENG, *New species of genus Maytenus from Guangxi.* Acta Phytotax. Sin. 19 (1981) 232-234. In Chinese. 4 new species.
- SHAW, H.K. Airy, *A new species of Hanguana from Borneo.* Kew Bull. 35 (1981) 819-821, 1 fig. According to Shaw a distinct taxon round Mt Kinabalu, where *H. malayana* apparently does not occur; distinct by the large fruits.
- *The Euphorbiaceae of Sumatra.* Kew Bull. 36 (1981) 239-374, 12 fig., 1 map. A valuable list. As usual the flora is somewhat poorer than that of Malaya and Borneo; 1 endemic genus; 4 new species, 2 new vars. are described. Artificial key to the genera; illustrative figures.
- *Notes on Asiatic, Malesian and Melanesian Euphorbiaceae. CCXLII-CCLII.* Kew Bull. 36 (1981) 599-612. New species and records from mostly Borneo, Philippines, Celebes, New Caledonia, China, New Guinea, New Hebrides.
- *New species of Antidesma (Stilaginaceae) from Malesia and Australia.* Kew Bull. 36 (1981) 635-637. 3 new species from Borneo, Celebes, Queensland.

- SHIMIZU,T. c.s. *A report on the Thai-Japanese botanical expedition 1979.*
 Thai For.Bull. 13 (1980) 47-60, 9 phot., 1 map.
 Personnel involved; aims of the five trips; brief botanical sketches of districts visited; brief report on Bryophytes, with 2 remarkable generic records.
- , H.TOYOKUNI, H.KOYAMA, T.SANTISUK & T.SMITINAND, *Contributions to the Flora of Southeast Asia VI. Taxonomy and phytogeography of some temperate species in Thailand (2).* Acta Phytotax.Geobot. 32 (1981) 37-46, 2 fig., 1 tab.
 A large number of names listed; special treatment of some Acer spp.; Gentiana, Inula, Parnassia, Swertia.
- SIKDAR,J.K. & G.G.MAITI, *A new species of Lindenbergia (Scrophulariaceae) from Eastern India.* J.Bomb.Nat.Hist.Soc. 77 (1980) 121-123, 4 fig.
- & ---- *A new species of Ophiorrhiza (Rubiaceae) from India.* J. Bomb.Nat.Hist.Soc. 78 (1981) 143-145, 1 fig.
 West Bengal, 1800 m.
- SINGH,M.M. c.s. *Investigations on Andaman and Nicobar islands woods for different grades of paper.* Indian For. 107 (1981) 377-383.
 State of the forests mentioned.
- SINGH,N.P. *Cassia sericea Sw., a new record for India.* Bull.Bot.Surv. India 21 (1979; publ. 1981) 203-205, 1 fig.
- *On a recollection of a few rare plants from Karnataka.* Bull.Bot.Surv. India 21 (1979; publ. 1981) 231-234, 2 pl.
 A Crotalaria and Eleiotis trifoliata Cooke (Legum.).
- SINHA,A. & G.S.GIRI, *Cryptolepis grandiflora Wight, a new record for Andamans.* J.Bomb.Nat.Hist.Soc. 77 (1980; publ. 1981) 366-367.
 Asclep. Indian species.
- , G.G.MAITI & G.S.GIRI, *A new species of Jasminum (Oleaceae) from India.* J.Bomb.Nat.Hist.Soc. 77 (1980; publ. 1981) 305-307, 5 fig.
 Allied to J. dispermum Wall.
- & B.MITRA, *Two new combinations of the genus Asemanthia (Stapf) Ridley (Rubiaceae).* J.Bomb.Nat.Hist.Soc. 78 (1981) 427-428.
 2 new varieties by reduction of 2 taxa in Mussaenda.
- SIVADASAN,M. & D.H.NICOLSON, *A new species of Theriophonum Bl. (Araceae) from India.* Aroideana 4 (1981) 64-67, 7 fig.
- SIVARAJAN,V.V. *Taxonomic notes of the genus Portulaca Linn. in India.* J.Bomb.Nat.Hist.Soc. 78 (1981) 256-260.
 Key to 3 species and several varieties.
- *SIWON,H. *A pharmacognostical study of some Indonesian medicinal plants of the family Menispermaceae.* Thesis, Leiden (1982) 108 pp., 14 fig.
 Paperback. Copies from author: Box 13089, The Hague, The Netherlands).
 Special analyses of Anamirta cocculus, Arcangelisia flava, Cosci-

nium fenestratum, Fibraurea chloroleuca, Pycnarrhena longifolia, P. novoguineensis, formulas given. Suggestions about other species. Good botanical background.

SMIET,A.C. on reserves in the Moluccas — See page 3766.

SMIET,F. & T.SIALLAGAN on a national park for Seram — See page 3765. The same as A.C.Smiel.

SMITH,R.M. *Zingiberaceae. Synoptic keys to the tribes Zingiberae, Globbeae, Hedychieae, Alpiniae (in part).* R.Bot.Gard.Edinb., Dept.Publ. ser. no 2 (1981) mimeogr. 28 pp., illus. Ring-bound.

Morphology explained, with detail figures for glossary; dichotomous key for subfamilies and tribes of family. For each tribe a synoptic key to genera. All genera with brief description and mention of type species.

*SMITINAND,T. *Thai plant names (Botanical names - Vernacular names).* 2nd Printing. Bangkok (1980) 377 pp. Hard cover. US\$ 20.
Scientific plant names arranged alphabetically by genus with their Thai equivalents and an index of English names with their Latin equivalents.

SNEED,M.W. *Pigafetta and other palms in Sulawesi (Celebes).* Principes 25 (1981) 106-119, 17 fig.

Popular on exploring for palms in Sulawesi; emphasis on uses of Pigafetta.

----- *Indian Ocean Odyssey. A look at palms from Good Hope to Sri Lanka.* Principes 25 (1981) 153-171, 31 fig.

Casual observations on wild and cultivated species.

SODERSTROM,T.R. *Some evolutionary trends in the Bambusoideae (Poaceae).*

Ann.Missouri Bot.Gard. 68 (1981) 15-47, 8 fig.

Seedling description; a new American species of Streptochaeta; structure of spikelets.

SOEJONO & R.E.NASUTION, *Putri kendat (Platanthera susannae (L.) Lindl.) dari Jara Timur.* Bul.Kebun Raya 4 (1979) 89-91, 1 fig. In Indonesian, English summary.

Orchid. Flower biology.

----- & ----- *Buah lerak (Sapindus rarak DC.) pencuci tradisional kain batik.* Bul.Kebun Raya 4 (1979) 101-103, 1 fig. In Indonesian, English summary.

Sapind. Utilisation in batik industry.

SOEPADMO,E. *Mangroves.* Nature Malaysiana 5, no 1 (1980) 14-23, col.illus. A fine-illustrated account of mangrove plants and growth, and ecology (pollination and dispersal).

SCHMID,S.H. *Primulaceae.* Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 478-482.

SOJAK,J. *Fragmenta phytotaxonomica et nomenclatorica (2)*. Casopis Narodniho Muzea V Praze (1979) 193-209.

This paper contains many hundreds of new combinations, new names, etc. derived from literature. In part they are caused by splits of genera, e.g. Vinea from Carex, Isolepis & Schoenoplectus from Scirpus, Aleuritia from Primula, and homonymy. Unfortunately the author did not combine this with monographic work but just made the transfers from all names in Index Kewensis, in an automatic way. An abominable, unscientific method, whereby a fair number of wrong transfer names is created. Noticeable for the Malesian flora is his claim that the generic grass name Aulacolepis is a homonym of that by Ettingshausen based on a fossil. Aniselytron Merr. has now to be accepted for the living grass genus, but some of the transfers are wrong because the basionyms do not belong to Aniselytron.—v.St.

SREEKUMAR,P.V. & N.C.NAIR, *Melochia nodiflora Swartz (Sterculiaceae) - A new record for India*. J.Bomb.Nat.Hist.Soc. 78 (1981) 424-425.

Key to 3 species.

STACE,H.M. *Biosystematics of the Brachyscome aculeata (Labill.) Less. Sensu G.L.Davis species complex (Compositae: Astereae)*. Aust.J.Bot. 29 (1981) 425-440, 11 fig., 3 tab.

Key to 4 species; chromosome numbers; biological species concept.

* STEARN,W.T. *The Natural History Museum at South Kensington. A History of the British Museum (Natural History) 1753-1980*. Heinemann, London (1981) 414 pp., 31 fig., 88 pl. Cloth £ 15, Paper £ 10.

An interesting detailed account of personalities, scientists and collectors, and a full illustrated history of the growth of this unique institute; no lack of anecdotes. Agreeable reading. Excellent achievement.

STEBBINS,G.L. *Coevolution of grasses and herbivores*. Ann.Missouri Bot. Gard. 68 (1981) 75-86.

STEMMERMAN,L. *Observations on the genus Santalum (Santalaceae) in Hawaii*. Pac.Sci. 34 (1980) 41-54, 1 fig., 2 tab.

Key to Hawaiian species (2) with many varieties (3 new, of which 2 new combinations).

* STERLY,J. *Heilpflanzen der Einwohner Melanesiens. Beiträge zur Ethnobotanik des südwestlichen Pazifik*. Klaus Renner Verlag, München/Hamburg (1970) 341 pp., illus.; especially pp. 301-322.

Ethnobotany of several dozens of plant species commonly occurring in Malesia and Pacific. Magic and medicinal uses, also edible plants. Elaborate data.

ST.JOHN,H. *Lepidium orbiculare (Cruciferae) of Kauai*. Haw.Pl.Stud. 105. Phytologia 47 (1981) 371-373, 1 fig.

New species.

----- *Novelties in Panicum (Gramineae) from Kahoolawe*. Phytologia 47 (1981) 374-378, 1 fig. — 1 new sp., 1 new var. in Hawaii.

- *Notes on the genus Hoseanthus (Verbenaceae).* Phytologia 48 (1981) 116-121.
Monotypic; compilation.
- *Additions to Cyanea (Lobeliaceae) of Oahu and Maui.* Haw.Pl.Stud. 106. Phytologia 48 (1981) 143-145, 1 fig.
1 new species, 1 new combination.
- *New combinations in Railliardia (Compositae).* Haw.Pl.Stud. 111. Phytologia 49 (1981) 291.
2 new combinations (transfers from Dubautia).
- *New species from Kauai.* Haw.Pl.Stud. 97. Pacif.Sci. 35 (1981) 97-103, 3 fig.
A new species in Pritchardia, Neraudia and Pteralyxia.
- & G.D.CARR, *Two new species of Dubautia (Compositae) from Kauai.* Bull.Torrey Bot.Club 108 (1981) 198-204, 3 fig.
- *STOCKER,G.C. (compiler) *North Queensland Field Trip 5. XIII International Botanical Congress.* (1981) 56 pp. (without page numbers), 16 phot. Excursion guide, centred from Cairns. Vegetation description and plant list.
- STONE,B.C. *A nomenclatural change in Malaysian Araliaceae: Eleutherococcus malayanus (Henderson) comb.nov. instead of Acanthopanax malayanus Hend.* Malays.For. 43 (1980) 395.
- *A new species of Pandanus (Pandanaceae) from Burma.* Gard.Bull.Sing. 34 (1981) 177-179, 2 fig.
Of section Rijkia subsection Bidens.
- SUBBA RAO,G.V. & R.GOPALAN, *The genus Macroptilium (Benth.) Urb., a new record for India.* J.Bomb.Nat.Hist.Soc. 77 (1980; publ. 1981) 357-359, 8 fig.
Introduced from tropical America, widely cultivated elsewhere.
- & ----- *Notes on an interesting species of Symplocos Jacq.* J.Bomb. Nat.Hist.Soc. 78 (1981) 191-192.
S. kurgensis Clarke kept separate; by Nooteboom treated as a variety of S. macrophylla DC.
- , G.R.KUMARI & V.CHANDRASEKARAN, *A new species of Capparis Linn. (Capparaceae) from South India.* J.Bomb.Nat.Hist.Soc. 78 (1981) 146-148, 1 pl.
Allied to C. brevispina DC.
- SUBBA REDDI,C., E.U.B.REDDI & N.S.REDDI, *Breeding structure and pollination ecology of Tribulus terrestris.* Proc.Indian Natn.Sci.Acad. B47 (1981) 185-193, 3 fig., 6 tab.
- *SUDO,S. *Tropical Asian Timbers.* Publ. 1970, 439 pp., illus. In Japanese. Names (also vernacular ones, many Indonesian) of species in 67 families, with brief text. Seems a pure compilation. References 123 + 14. Illustrations poor.—M.J.

- SUN,Siang-chung & Hui-qin WANG, *Four new species of Chinese Eragrostis.* Acta Phytotax.Sin. 19 (1981) 511-514, 4 fig. In Chinese.
- *SUTISNA,U. *Komposisi jenis pohon hutan bekas tebangan di Batulicin, Kalimantan Selatan: deskripsi dan analisa. (Tree species composition of a logged-over at Batulicin, South Kalimantan: description and analysis.)* Balai Penelitian Hutan, Bogor, Laporan no 382 (Oct. 1981) 27 pp. + appendices, 4 fig. In Indonesian.
Main forest composition.
- *SUTLIVE,V.H. (ed.) *Where have all the flowers gone?* (1980) — See page 3758.
- SWAN,B. *Dunes of Friday Island, North Queensland.* Sing.J.Trop.Geogr. 2 (1981) 114-128, 6 fig.
Dynamics (wind, currents, climate); vegetation of beach forest (very brief); probably Holocene origin of this small island in Torres Strait.
- SWARUPANANDAN,K., A.R.R.MENON & K.BALASUBRAMANYAN, *A new key for biological identification.* Gard.Bull.Sing. 34 (1981) 161-169, 3 pl.
A 'synoptical dial key', much like the one by Johns of 1978; see pages 3746-3747.
- SYKES,W.R. *Sandalwood in the Cook Islands.* Pacif.Sci. 34 (1980) 77-82, 2 fig.
Circa 160°E 20°S; 1 new variety.
- *The vegetation of Late, Tonga.* Allertonia 2 (1981) 323-353, 15 fig.
Vegetation sketches; 145 taxa of vascular plants listed, 49 introduced species.
- SYMON,D.E. *The solanaceous genera, Browallia, Capsicum, Cestrum, Cyphomandra, Hyoscyamus, Lycopersicon, Nierembergia, Physalis, Petunia, Salpichroa and Withania, naturalised in Australia.* J.Adelaide Bot. Gard. 3 (1981) 133-166, 6 maps.
Descriptions; keys to species.
- *SYNGE,H. (ed.) *The biological aspects of rare plant conservation* (1981) — Reviewed on page 3797.
- TAM,Pui-cheung, *New materials on Santalaceae.* Bull.Bot.Research (Harbin, China) 1, no 3 (1981) 70-77, 3 pl.
1 new species in Pyrularia; 2 in Thesium.
- TAN,H. & A.N.RAO, *Vivipary in Ophiorrhiza tomentosa Jack.* Biotropica 13 (1981) 232-233, 5 fig.
Observed in Kedah, Malaya. — Not a true vivipary to me: seeds lie in the erect, obconical open capsules which fill with water and germinate if not removed. I have observed this also to occur occasionally in N. Sumatra. True vivipary involves germination before capsules dehisce.—v.St.

TANG, H.T. c.s. *Mangrove forests of Peninsular Malaysia - A review of management and research objectives and priorities.* Malays. For. 44 (1981) 77-86.

TAO, Jun-rong, *Succession of the floras in Xizang during Upper Cretaceous-Paleogene and Neogene.* Acta Bot. Sin. 23 (1981) 140-145, 2 fig.

Among the leaf-impression identifications from the Upper Cretaceous those of *Eucalyptus* species (3 spp.) are dominant, together with *Cassia*, *Celastrus*, *Quercus*, *Rhamnus*, *Phrynum*, *Typha*. Further records of a Miocene formation. It is suggested that the genus *Eucalyptus* originated in Yunnan. Remarkable news for Australian botanists.

TARMUDJI & R.E.NASUTION, *Anggrek spaghetti (Chiloschista javanica Schltr.) dari Jawa Timur.* Bul.Kebun Raya 4 (1979) 97-99, 1 fig. In Indonesian; English summary.

Orch. Description and distribution in Java.

TATEISHI, Y. & H.OHASHI, *Eastern Asiatic species of Mucuna (Leguminosae).* Bot. Mag. Tokyo 94 (1981) 91-105, 7 fig.

In re-examination of all Eastern Asian species 4 spp. and 1 subsp. are recognized as distinct. Key; no novelties, many reductions; one occurs in Malesia, and also *M. nigricans* treated in passing.

* TAYLOR, P.M. *Tobelorese ethnobiology: the folk classification of 'biotic forms'.* Diss. Yale Univ., c/o Smithson. Inst. Washington-D.C. (1980) 463 pp.

Ethnological, incl. ethnobotany in Halmahera (Moluccas).

* TEOH ENG SOON, *Asian Orchids.* Times Books International, Singapore (1980) xiv + 287 pp. \$ 62.50.

Covers the horticulturally more important orchid tribes; general chapters on culture of orchids; large number of beautiful colour pictures of species and hybrids; in addition to native species also many exotics cultivated in Malaysia.

TERAO, H. *Notes on some species of Strobilanthes (Acanthaceae) from Thailand (2).* Acta Phytotax. Geobot. 32 (1981) 31-36, 2 fig. 3 species (1 new).

----- *Note on Philippine Oxalis acetosella.* Acta Phytotax. Geobot. 32 (1981) 74.

Arranges this as subsp. formosana.

THEOBALD, W.L. *Bignoniaceae.* Rev. Handb. Fl. Ceylon, New Delhi 2 (1981) 387-396, 1 fig.

THOMPSON, J.N. *Reversed animal-plant interactions: the evolution of insectivorous and ant-fed plants.* Biol. J. Linn. Soc. 16 (1981) 147-155, 4 tab.

Brings nothing new and confuses issues. No reference to the classic but non-English works of Beccari and Docters van Leeuwen.

- THOTHATHRI, K. & K.K.N.NAIR, *Dalbergias in Hortus Malabaricus*. Taxon 30 (1981) 43-47.
Legum. Evaluation of 5 Rheede names; 1 new variety.
- & A.PRAMANIK, *A new species and some notes on Alysicarpus Neck. ex Desv. Bull.Bot.Surv.India* 21 (1979; publ. 1981) 188-192, 1 pl.
Key to 2 taxa (1 unnamed).
- TIREL, C. & J.JÉRÉMIE, *Flore de la Nouvelle Calédonie et Dépendances* vol. 11 (1982) — Reviewed on page 3798.
- TIRVENGADUM, D.D. *Pittosporaceae*. Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 473-477.
- *TIWARI, S.D.N. *The phyto-geography of legumes of Madhya Pradesh (Central India)*. Bishen Singh Mahendra Pal Singh, Dehra Dun (198?) xviii + 616 pp., 31 fig. & phot., 39 maps. Rs. 195, \$ 39. (Not seen.)
- TOWNSEND, C.C. *Proteaceae*. Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 483-486.
- *Thymelaeaceae*. Rev.Handb.Fl.Ceylon, New Delhi 2 (1981) 501-511.
- TOYOKUNI, H. *Studies on the Gentianaceae of Thailand. I. Notes on Exacum (Gentianaceae-Exicinae)*. Acta Phytotax.Geobot. 32 (1981) 198-203, 5 fig.
3 species and 1 variety.
- TR'ÂN DÌNH LÝ, *Eine neue Ervatamia-Art aus Vietnam*. Feddes Rep. 91 (1980) 393-395, 1 fig.
- *Eine neue Rauvolfia-Art aus Vietnam*. Feddes Rep. 91 (1980) 397-399, 1 fig.
- TSI, Zhan-hue, *New species of Orchidaceae from China*. Acta Phytotax.Sin. 19 (1981) 505-510, 1 fig. In Chinese.
New species in Phaius (1) and Calanthe (2, and 3 varieties).
- TSOONG, Pu-chiu & Chi-yun MA, *A study on the genus Sophora Linn. (cont.)*. Acta Phytotax.Sin. 19 (1981) 143-167. In Chinese.
Account of section Sophora; some 30 species treated.
- TUYAMA, T. *Botanical exploration of Isl. San Augustino or Minamiwoto*. J.Jap.Bot. 56 (1981) 313-323, 3 fig.
Inventarisation of one of the Bonin Islands.
- UJI, T. *Caesalpinia coriaria (Jacq.) Wild. - Dan potensinya sebagai penghasil tanin*. Bul.Kebun Raya 4 (1979) 43-46, 1 fig., 1 tab.
Producer of tannin.
- URBANSKA-WORYTKIEWICZ, K. *Cytological variation within the family of Lemnaceae*. In: E.Landolt (ed.) *Biosystematische Untersuchungen in der Familie der Wasserlinsen (Lemnaceae)*. Vol. 1. Veröff.Geobot. Inst.ETH, Stift.Rübel Zürich Heft 70 (1980) 30-101, 108 fig., 12 tab.
Very extensive, 1500 samples examined of 30 taxa; euploid numbers

range from $2n = 20$ to $2n = 80$, tetraploid $2n = 40$ most common; intra-individual and intra-population variation with aneuploidy and tetraploidy occurs.

VAID, K.M. & H.B. NAITHANI, *Eupatorium capillifolium* (*Dog-fennel*) naturalising in India. J. Bomb. Nat. Hist. Soc. 78 (1981) 413-415, 1 fig.
Originally grown as an ornamental.

VAUGHAN, P. *Taeniophyllum obtusum*. Nature Malaysiana 6, no 2 (1981) 30-31,
col. phot.
Orchid.

*Vegetation of China. Ed. by Wu Zhengyi c.s. (1980) 96 pp. of phot., 1 col. vegetation map of China (1 : 10,000,000), 1 vegetation-distribution map of China (1 : 14,000,000), vi + 1375 pp. 4to. Cloth. In Chinese, with Latin nomenclature, Chinese-Latin and Latin-Chinese plant species index.

This book is the final result of approx. 30 years of research directed towards the distribution of vegetation in China. Environmental features, floristic features, community classification have been dealt with as well as conservation, rational utilization and reformation, etc.

*Vegetation Map of China. (1980) 58 different coloured formations. Scale 1 : 4,000,000; 1 foldg. sheet, with 13 pp. of explanations. In Chinese, with Latin equivalents to Chinese plant names in explanatory brochure.

This is probably the first phytogeographical map on China published in recent years and a companion to the book 'Vegetation of China'.

VELDKAMP, J.F. Validation of *Blakeochloa* Veldk. (Gramineae). Taxon 30 (1981) 477-478.

New genus with 3 new combinations.

VELEZ, M.C. Karpologische Untersuchungen an amerikanischen Astereae (Compos.). Mitt. Bot. München 17 (1981) 1-170.

Deals with anatomy and morphology of achenes of South American genera. For Malesia interesting: contrasting Lagenophora and Myriactis (p. 38). The Venezuelan species Lagenophora andina Badillo (by Cabrera put into Lagenophora sect. Pseudomyriactis) is transferred to Myriactis (1 new comb.) by which the range of Myriactis becomes trans-Pacific.

VERDCOURT, B. New taxa of *Mucuna* (Leguminosae-Phaseoleae) from East Africa and Australia. Kew Bull. 35 (1981) 743-752, 5 fig., 1 pl.

Incl. 2 species from N. & W. Australia (1 new); The W. Australian one also in East Malesia and Java.

VERPOORTE, R., J. SIWON, M.E.M. TIEKEN & A. BAERHEIM SVENDSEN, Studies on Indonesian medicinal plants. V. The alkaloids of *Anamirta cocculus*. J. Natural Products (Lloydia) 44 (1981) 221-224.
Menispermaceae.

- VIDAL, J.E. *Voyage botanique en Asie du Sud-Est. Science et Nature no 120* (Nov./Dec. 1973) 11 pp., 18 fig.
Excursion report on West Java (P. Peutjang), Ujung Kulon, Tjibodas, South Vietnam, North Thailand.
- VINCENT, K.A. *Lindernia antipoda* (L.) Alston and *Veronica cymbalaria* Bod. (*Scrophulariaceae*): new to North America; *V. hederaefolia* L.: new to Louisiana. *Sida* 9 (1981) 185-186.
- VLIET, G.J.C.M. van, *Wood anatomy of the palaeotropical Melastomataceae*. *Blumea* 27 (1981) 395-462, 10 pl., 9 tab., 6 fig.
134 samples of 107 species (of 36 genera). *Crypteroniaceae* form a separate subfamily.
- , J. KOEK-NOORMAN & B.J.H. ter WELLE, *Wood anatomy, classification and phylogeny of the Melastomataceae*. *Blumea* 27 (1981) 463-473, 2 fig., 1 tab.
Astronioideae referred to *Memecyloideae* (*Pternandra*) and *Melastomatoideae* (4 other genera).
- * VOGELZANG, L. *Guide to the prices of antiquarian and secondhand botanical books (1970-1979). Cryptogamic literature (Algae, Desmids, Ferns, Fungi, Lichens, Mosses, Phytopathology, Phytoplankton)* (1982) — See page 3799.
- WAARD, P.W.F. de, *Problem areas and prospects of production of pepper (Piper nigrum L.). An overview*. *Bull. Dept. Agricult. Res.*, Kon. Inst. Tropen A'dam no 308 (1980) 1-29, 2 phot., 3 tab.
Cultivation, production, diseases.
- WADSWORTH, F.H. on the forest situation in Sarawak — See page 3764.
- WAHYUDI, *Penggunaan tempuyung (Sonchus arvensis L.) dalam pengobatan*. *Bul. Kebun Raya* 4 (1979) 83-87, 1 fig. In Indonesian, Engl. summary.
Medicinal properties.
- WANG, Cheng-ping & Quan-zheng XIE, *Triostellum, a new genus of the Cucurbitaceae from China*. *Acta Phytotax. Sin.* 19 (1981) 481-484, 1 fig.
In Chinese.
New genus aff. *Gynostemma*; 2 species (1 new).
- WANG, Da-ming, Shao-zeng YANG & Yung-kang YANG, *A new species of Hopea with some notes on Hopea mollissima from Yunnan*. *Acta Phytotax. Sin.* 19 (1981) 253-256, 2 fig. In Chinese.
- WANG, Wen-tsai, *Quinque genera nova Gesneriacearum e Sina*. *Bull. Bot. Res.* (Harbin, China) 1, no 3 (1981) 21-51, 7 pl.
5 new genera and c. 15 new species; with keys.
- *Revisio Boehmeriae sinicae*. *Acta Bot. Yunnanica* 3 (1981) 307-328, 401-416, 29 fig., 4 maps, 1 tab. In Chinese.
Keys to many species and varieties.
- *Genus novum primitivum Gesneriacearum e Sina*. *Acta Phytotax. Sin.* 19 (1981) 485-489, 1 fig. In Chin.—Belongs to subtr. *Ramondieae*.

- WASHINGTON, H. *A case history of the island of Palawan (Philippines). South East Asian Exploitation.* Habitat 9, no 5 (1981) 10-12, 6 col. phot., map.
- Nature reserves and conservation. Situation is not particularly favourable.
- WEBB, L.J. & J.G. TRACEY, *Australian rain forests: patterns and change* (1981) — Reviewed on page 3799.
- WEBER, J.Z. *A taxonomic revision of Cassytha (Lauraceae) in Australia.* J. Adelaide Bot. Gard. 3 (1981) 187-262, 25 fig., 15 maps. Full revision; 14 species (2 also in Malesia).
- WEI, Fa-nan, *New species of Guttiferae and Malpighiaceae from Guangxi.* Acta Phytotax. Sin. 19 (1981) 355-358, 4 fig. In Chinese. New species in Garcinia (1) and Hippocratea (3).
- WEI, Zhi, *Antheroporum Gagnep. (Leguminosae), a genus new to China.* Acta Phytotax. Sin. 19 (1981) 351-354, 1 fig. In Chinese. 2 species (1 new).
- WELZEN, P.C. van, *A taxonomic revision of the genus Arthraxon Beauv. (Gramineae).* Blumea 27 (1981) 255-300, 16 fig., 4 maps. World revision; 3 widespread species are very variable and have a large number of synonyms; 7 species keyed out; 9 varieties (6 new combinations); identification list.
- WET, J.M.J. de, *Grasses and the culture history of man.* Ann. Missouri Bot. Gard. 68 (1981) 87-104.
- WHALEN, M.D., D.E. COSTICH & C.B. HEISER, *Taxonomy of Solanum section Lasiocarpa.* Gentes Herb. 12 (1981) 41-129, 31 fig., 6 tab. Large introductory chapters on speciation, indument, chromosomes, flower biology, ecology. Key to 13 species. American section but for the Indo-Malesian S. lasiocarpum Dunal (S. ferox auct. not of Linné!), S. repandum Forst (Pacific). S. quitoense is cultivated in Java.
- *WHIBBLEY, D.J.E. & N.N. DONNER, *Acacias of South Australia.* Govt Printer, Woolman, S. Australia (1980) 240 pp., 97 fig. (some in col.), illus. key fig. 79 species described and figured.
- WHISTLER, W.A. *A naturalist in the South Pacific north to Tokelau.* Bull. Pacif. Trop. Bot. Gard. 11 (1981) 29-37, 5 phot. Account of trip; species listed; vernaculars listed; islets 300 miles north of Tonga.
- WHITMORE, T.C. *Modes of variation in the composition of tropical lowland evergreen forest in the South-East Asian archipelago and their correlation with the environment.* Mitt. Bundesforschungsanstalt für Forst- und Holzwissenschaft 115 (1977) 131-152. Not seen. Author wrote that it contains the same matter as chapter 15 of his 1975 book.

- *Potentially economic species of Southeast Asia forests.* BioIndonesia no 7 (1980) 65-74.
Paper to the 8th World Forestry Congress, see page 3223.
- *Studies in Macaranga. X. Novitates Sumatranae.* Kew Bull. 36 (1981) 423-424.
2 new species. The second species is claimed from Blume, found in Nusa Laut; but Blume collected not outside Java. This species, *M. seta-felis*, will in all probability have been collected by Reinwardt in the Moluccas, in Nusa Laut = Saparoea.—v.St.
- *----- (ed.) *Wallace's Line and plate tectonics* (1981) — Reviewed on page 3800.
- WHITTEN, A.J. & J.E.J. WHITTEN, *The Sago Palm and its exploitation on Siberut Islands, Indonesia.* Principes 25 (1981) 91-100, 12 fig., 1 tab.
Sago is staple food; various uses.
- WHYTE, R.O. *The Gramineae of monsoonal and equatorial Asia. II. Western monsoon Asia.* Asian Perspectives 21 (1981) 182-206, 2 fig.
Distribution through time, also in Indo-Malesia.
- WIENS, D. & H.R. TÖLKEN, *Loranthaceae.* Flora of Southern Africa 10, pt 1 (1979) 1:1-1:59, 18 fig., 21 maps.
Helixanthera only genus in common with Malesia; Viscaceae also treated (only *Viscum*!).
- WILDE, W.J.J.O.de, *Supplementary data on Malesian Knema (Myristicaceae) including three new taxa.* Blumea 27 (1981) 223-234, 3 fig.
Various notes; incl. 2 new species and a new subspecies and their insertion in the former key.
- *A second species of Saraca from East Malesia and additional notes on Saraca celebica (Caesalpiniaceae).* Blumea 27 (1981) 235-238, 1 fig.
The new species from Flores and Halmahera; genus new to the Moluccas.
- WILKINSON, H.P. *The anatomy of the hypocotyls of Ceriops Arnott (Rhizophoraceae), recent and fossil.* Bot.J.Linn.Soc. 82 (1981) 139-164, 49 fig., 2 tab.
There is a very great similarity between the fossil Lower Tertiary *C. kantiensis* of S. England and recent *C. decandra*.
- WILSON, K.L. *A synopsis of the genus Scirpus sens. lat. (Cyperaceae) in Australia.* Telopea 2 (1981) 153-172, 2 tab.
Scirpus segregated into 5 taxa, causing some new comb.; keys and synonymy; no descr.; no new species.
- *Revision of the genus Mesomelaena (Cyperaceae).* Telopea 2 (1981) 181-195, fig. 1-6.
Key to 4 genera; key and description of 5 species (several new combinations).

WILSON, P.G. *Proposal for the conservation of the generic name Xanthostemon F.Mueller (1857) against Nani Adanson (1763).* Taxon 30 (1981) 325-327.

Metrosideros involved. Myrtaceae.

*WOMERSLEY, J.S. *Plant collecting and herbarium development. A manual* (1981) — Reviewed on page 3801

WOOD, J.J. *Die Orchideen der Admiralitätsinseln (Teil 2).* Die Orchidee 32 (1981) 171-175, Abb. 11-18.
5 records discussed; checklist.

WOOD, M.W. & P.J. CRIBB, *Paphiopedilum superbiens* subsp. *superbiens* & subsp. *ciliolare* (Orch.). Curtis Bot. Mag. n.s. 183 (1981) 49-53, 2 fig.; tab. 803.
From the Philippines; 1 new subsp. comb.

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SEM-OBSERVATION OF DEVELOPING PLANT ORGANS USING DEEP-FROZEN SPECIMENS

The SEM-observation of plant material normally requires dehydrated, dry specimens coated with carbon or metal. Unfortunately, the standard drying methods (including the critical-point-drying-technique) often cause shrinking and deformation of the specimen surface; therefore, SEM-studies on plant ontogeny are rather difficult, material- and time-consuming. Experiments using deep-frozen specimens have been carried out in England and in the USA, but have proved not satisfying.

Recently, a new preparation technique working with shock-frozen specimens has been developed by ALDRIAN at the Technical University of Graz (Austria). This technique, originally devoted to checking the water content of concrete, was tested and applied to living plant material by the present communicators. As a test object the Malayan gesneriad *Monophyl-laea horsfieldii* was chosen. Studying in special the inflorescence and calyx development, the results proved by far superior to those obtained by conventional SEM-preparation methods. As it appears this technique can be successfully employed in ontogenetical and morphological studies of any kind working with living material.

The preparation procedure and the required equipment is as follows:
 1. Living material is dissected and the specimen is mounted onto a copper stub. 2. The specimen is plunged into liquid nitrogen. 3. The shock-frozen specimen is transferred under a protective hood via a lock into a pre-cooled, high vacuum-preparation apparatus and coated with carbon and gold. 4. From here the specimen is moved into a special transfer chamber (retention of low temperature and high vacuum) and transferred into the SEM, the specimen stage of which is cooled by liquid nitrogen.—A. Weber, M. Hesse, Botanisches Institut, Rennweg 14, A-1030 Wien, Austria.—A more extensive version in German was printed in Beitr. elektronenmikroskop. Direktabb. Oberfl. 14 (1981) 625-630, 8 fig.