

XII. BIBLIOGRAPHY  
(continued from page 2961)

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* :

ABBOTT,I.A. *On the identity of Zonaria hawaiiensis (Phaeophyta, Dictyotales)*. Bull.Jap.Soc.Phycol. 25, Suppl.(1977) 1-8, 1 fig., 1 tab.  
= *Stylopodium hawaiiensis* comb.nov.

AKIOKA,H. & T.MASAKI, *On two Japanese species of the genus Clathromorphum (Corallinaceae, Rhodophyta) and their Japanese names*. Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 9-16, 2 fig., 2 tab.

CASSIE,V. *New records of two species of planktonic algae in New Zealand*. New Zeal.J.Bot. 14 (1976) 349-354, 17 fig.

CHAPMAN,R.L. & B.H.GOOD, *Observations on the morphology and taxonomy of Phycopeltis hawaiiensis King (Chroolepidaceae)*. Pacif.Sci. 30 (1976) 187-195.

CHAPMAN,V.J. *Marine algae of Norfolk Island and the Cook Islands*. Botanica Marina 20 (1977) 161-165, 3 pl.

CHATTERJEE,P. *Some additions to the Charophytes of West Bengal*. Bull.Bot.Soc.Beng. 29 (1975) 105-109.  
8 records.

CHIAN,CHENG-YU & HSIAN-YUAN HU, *A discovery of Characiosiphon rivularis Iyengar from China*. Acta Phytotax.Sin. 14 (1976) 89-91, 1 fig.  
Green alga. In Chinese.

CHIHARA,M. *Compsopogonopsis japonica, a new species of fresh water red algae*. J.Jap.Bot. 51 (1976) 289-294, 2 fig.

CORDERO Jr,P.A. *Phycological observations. V. Gross morphological polymorphisms in Caulerpa brachypus (Caulerpales, Chlorophyta) from the Philippines, with notes on their taxonomy*. Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 25-30, 3 fig.

CROASDALE,H. *New or otherwise interesting Desmids from Northern Australia*. Nova Hedwigia 27 (1976) 501-595, 17 pl., 1 map.  
Species and records listed; no keys.

- DUTT, A.K., T.K.DATTA & K.K.GUPTA, *Studies on high altitude saxicolous Cyanophyta IV. "Hyphomorpha borzii", sp.nov., a new alga from India.* Giorn.Bot.Ital. 110 (1976) 173-178, 2 fig.
- FAROOQ, S. & M.A.F.FARIDI, *Oedogonium in Peshawar Valley.* Pak. J.Bot. 8 (1976) 263-273, 2 pl.  
Key to 22 spp.
- GORDON, G.D., T.MASAKI & H.AKIOKA, *Floristic and distributional account of the common crustose coralline algae on Guam.* Micronesica 12 (1976) 247-277, 11 pl.  
15 spp. descr. and keyed out.
- GORDON-MILLS, E. *Two new species of marine algae from Stewart Island, New Zealand, Medeiothamnion norrisii and Ptilothamnion rupicolum (Ceramiaceae, Rhodophyta).* Phycologia 16 (1977) 79-85, 13 fig.
- GUPTA, D. *Some new records of blue-green algae from West Bengal. II.* Bull.Bot.Soc.Beng. 29 (1975) 29-31, 1 fig.  
4 spp. recorded.
- HACKETT, H.E. *Marine algae known from the Maldives Islands.* Atoll Res.Bull. no 210 (1977) 30 pp., 2 fig.  
Name list and ecology.
- HINODE, T. *Desmids collected from Miyajima Island, Hiroshima Prefecture.* Hikobia 8 (1977) 71-90, 7 fig., 1 pl.  
67 spp. listed; some n.spp.
- HIRANO, M. & S.IWAKI, *Diatoms from the Mt. Yūbari district, Hokkaidō.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 55-60, 1 pl., 1 fig.  
Name list.
- HOYLE, M.D. *Gracilaria dotyi sp.nov. (Rhodophyta, Gigartinales): a new intertidal species from Oahu, Hawaiian Islands.* Pacif.Sci. 31 (1977) 85-89, 1 fig.
- *Gracilaria epihippisora sp.nov. (Rhodophyta, Gigartinales, Gracilariaeae): a new species from the island of Hawaii.* Phycologia 16 (1977) 259-264, 8 fig.
- IORIYA, T. *A new heterotrichacean alga, Tribonema yamadanum sp.nov. (Xanthophyceae).* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 79-85, 10 fig., 3 tab.
- ITONO, H. *Studies on the Southern Japanese species of Galaxaura (Rhodophyta).* Micronesica 13 (1977) 1-26, 45 fig.  
20 spp. from S. Japan; key to spp.
- *Studies on the ceramiaceous algae from southern parts of Japan.* Bibl.Phycol. 35 (1977) 354 pp., 72 pl.  
Descr.; key to genera; many new comb., n.spp., n.g., no key to spp.

- KHAN,M. & A.MATHUR, *Algal flora of the rice-fields around Dehradun, India.* Rev.Algol. n.s. 11 (1976) 333-337, 1 tab.  
24 Cyanoph. and 24 Chloroph. listed.
- KRAFT,G.T. *Studies of marine algae in the lesser-known families of the Gigartinales (Rhodophyta). I. The Acrotylaceae.* Austr.J.Bot. 25 (1977) 97-140, 18 fig.
- *Ditto. II. The Dicranemaceae.* Austr.J.Bot. 25 (1977) 219-267, 20 fig.
- LALORAYA,V.K. & A.K.MITRA, *Studies on the blue-green algae of the paddy fields of India. Part II: Taxonomic considerations of the blue-green algae obtained from paddy fields of India.* Nova Hedwigia Beih. 47 (1974) 263-337, 12 pl.  
122 spp. listed.
- & ----- *Ditto. Part III: New members of Chroococcaceae and Oscillatoriaceae.* Nova Hedwigia Beih. 47 (1974) 339-346, 1 pl.  
5 new varieties.
- & ----- *Ditto. Part IV: New members of Nostocaceae and Rivulariaceae.* Nova Hedwigia Beih. 47 (1974) 347-359, 2 pl.  
A few n.spp. and varieties.
- LEE,K. & M.KUROGI, *On the taxonomic position of Rhodymenia cuneifolia Okamura (Rhodophyta).* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 113-118, 3 fig.  
New comb. in Gracilaria.
- MSHIGENI,K.E. *New records of Hypneocolax stellaris f. orientalis Weber-van Bosse, a parasitic red alga.* Nova Hedwigia 27 (1976) 829-834, 4 fig., 1 tab.
- NAKANO,T. *Hormotilopsis gelatinosa Trainor et Bold, a new member of Japanese soil algae.* Hikobia 8 (1977) 117-123, 2 fig., 1 pl., 1 tab.
- NEGORO,K. & M.WATANABE, *On the phytoplankton of Lake Akan.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 221-237, 1 fig., 5 pl., 10 tab.
- NURUL ISLAM,A.K.M. *Freshwater algae of Bangladesh. VI. Genus Oedogonium.* Nova Hedwigia 27 (1976) 919-930, 45 fig.  
Spp. listed.
- PAPENFUSS,G.F. *Review of the genera of Dictyotales (Phaeophycophyta).* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 271-287.  
List of genera; no key.

- PRASAD, B.N. & D.K. ASTHANA, *Genus Spongioplastidium Vischer in India.* New Botanist 2 (1975; issued 1977) 148-150, 10 fig.  
S. proliferum new to India.
- & M. SAXENA, *Vaucheria bilaterialis Jao. A new record from India.* Curr.Sci. 46 (1977) 610-611, 3 fig.
- RATNASABAPATHY, M. *The significance of international contributions to the development of phycology in Malaysia.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 289-296.  
Survey of literature.
- RICARD, M. *Les peuplements de Diatomées des lagons de l'Archipel de la Société (Polynésie française).* Revue Algol. n.s. 12 (1977) 137-336, 15 pl., 29 tab., 23 fig.  
Ecosociological; name list.
- SANTELICES, B. *A taxonomic review of Hawaiian Gelidiales (Rhodophyta).* Pacif.Sci. 31 (1977) 61-84, fig. 1-6.  
Key to 12 spp.
- SANTRA, S.C. & T.K. ADHYA, *Vaucheriaceae of Eastern Himalayas (India).* Nova Hedwigia 27 (1976) 655-659, 5 fig.  
4 spp. listed.
- SARIM, F.M. & M.A.F. FARIDI, *Closterium in Peshawar Valley.* Pak.J.Bot. 8 (1976) 221-239, 3 pl.
- SEGI, T. *On the type or authentic specimens of Gelidium in U.S.A.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 327-331,  
2 fig.  
Name list.
- SHEPHERD, S.A. & H.B.S. WOMERSLEY, *The subtidal algal and sea-grass ecology of St Francis Island, South Australia.* Trans.R.Soc.S.Austr. 100 (1976) 177-191, 10 fig., 2 tab.  
Ecology; name list.
- SKVORTZOV, B.V. *Moss diatoms flora from river Gan in the northern part of Great Khingan Mountains, Inner Mongolia, China. I. With description of a new genera Porosularia gen.nov. from Inner Mongolia, Northern Manchuria and Southern China.* Quart.J.Taiwan Mus. 29 (1976) 111-152, 181 fig.).  
243 spp.
- *Ditto. II. With description of a new genus Porosularia gen.nov. from Northern and Southern China.* Quart.J.Taiwan Mus. 29 (1976) 397-439, fig. 182-362.  
Large name list and records.

- SOUTH, G.R. & N.M. ADAMS, *Erythrotrichia foliiformis* sp.nov. (*Rhodophyta, Erythropeltidaceae*) from New Zealand. J.R. Soc. New Zeal. 6 (1976) 399-405, 16 fig.
- \*SRINIVASAN, K.S. *Phycologia Indica (Icones of Indian Marine Algae)*. Vol. II. Publ. by Dir. Bot. Surv. India, 14 Madan Street, Calcutta (1973) xvii + 60 pp., 54 pl. \$ 12.50. Col. plates, each with a descr.
- TANAKA, J. & M. CHIHARA, Notes on algae in Japan and adjacent waters. I. J.Jap.Bot. 52 (1977) 245-253, 2 fig., 2 tab. 2 spp. descr. (Phaeophyta).
- & H. ITONO, On two new species of Chlorophyta from southern parts of Japan. Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 347-352, 11 fig.
- TAYLOR, W.R. Notes on plants of the genus *Caulerpa* in the herbarium of Maxwell S. Doty at the University of Hawaii. Atoll Res.Bull. no 208 (1977) 17 pp.
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Name list.
- TIWARI, G.L. & R.S. PANDEY, A study of the blue-green algae from paddy field soils of India. III. *Nostocaceae*. Nova Hedwigia 27 (1976) 701-730, 11 pl.  
40 spp. descr. and listed; some new.
- \*TRONO Jr, G.C. The taxonomy and ecology of the marine benthic algae of the Caroline Islands. Univ.Hawaii, Ph.D. Thesis Botany (1968) 387 pp., 38 pl. & maps; offset printing.
- The marine benthic algae of Bulusan and vicinity, province of Sorsogon. II. Phaeophyta. Kalikasan 5 (1976) 213-220.
- TSUDA, R.T. Occurrence of the genus *Sargassum* (Phaeophyta) on two Pacific atolls. Micronesica 12 (1976) 279-282, 1 fig., 1 map.  
Genera; distr.; ecology; in E. Micronesia absent.
- Some marine benthic algae from Pitcairn Island. Rev. Algol. n.s. 11 (1976) 325-331, 1 pl.  
21 spp. reported; affinity Malesian, one Austral.
- , S.S. AMESBURY & S.C. MORAS, Preliminary observations on the algae, corals, and fishes inhabiting the sunken ferry "Fujikawa Maru" in Truk Lagoon. Atoll Res.Bull. no 212 (1977) 6 pp.  
Name list.

- & W.J.TOBIAS, *Marine benthic algae from the Northern Mariana Islands, Chlorophyta and Phaeophyta.* Bull.Jap. Soc.Phycol. 25 (1977) 67-72, 155-158.  
Name list.
- UMEZAKI,I. & S.KAMURA, *The marine blue-green algae from the Okinawa Islands, Japan.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 361-369, 5 fig.
- VANNAJAN,S. & G.C.TRONO Jr, *The marine benthic algae of Manila Bay. I. Introduction, Cyanophyta and Chlorophyta.* Kalikasan 6 (1977) 33-46, 17 fig., 1 map.  
Annotated name list.
- VARMA,A.K. *Scytonematopsis Kisselewa from Indian rice field soils.* Nova Hedwigia Beih. 47 (1974) 625-635, 27 fig.
- VENKATESWARLU,V. *Taxonomy and ecology of algae in the river Moosi, Hyderabad, India. I. Chlorophyceae, Cyanophyceae and Euglenophyceae.* Nova Hedwigia 27 (1976) 661-688, 4 pl., 4 tab.  
List of spp.
- WATANABE,M. *A preliminary study of Gonium viridistellatum sp. nov. (Chlorophyta, Volvocaceae).* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 379-384, 2 fig.
- WHITTON,B.A., A.DONALDSON, D.J.BELLAMY & C.SHEPPARD, *Terrestrial and swamp algae from three islands in the Chagos Archipelago, Indian Ocean.* Atoll Res.Bull. no 217 (1977) 9 pp., 5 tab.
- WOLLASTON,E.M. *Morphology and taxonomy of the genus Acrothamnion J.Ag. (Ceramiaceae, Rhodophyta).* Bull.Jap.Soc. Phycol. 25, Suppl. (1977) 385-393, 14 fig.  
2 spp. distinguished.
- WOOD,R.D. & R. MASON, *Characeae of New Zealand.* New Zeal.J. Bot. 15 (1977) 87-180, 53 fig. & maps, 3 tab.  
15 spp. keyed out, 2 new to New Zealand; infrasp. new comb.
- WYNNE,M.J. *Mikamiella, a new genus of Delesseriaceae (Rhodophyta) from the North Pacific.* Bull.Jap.Soc.Phycol. 25, Suppl. (1977) 395-402, 7 fig.
- YOSHIDA,T. *Nomenclatural notes on some Japanese marine algae (2).* Bull.Jap.Soc.Phycol. 25 (1977) 79-82.  
Incl. some new names in Cladophora and Pleonosporium.
- *Two species of Rhodophyceae new to Japan.* Bull.Jap.Soc. Phycol. 25, Suppl. (1977) 413-418, 11 fig.

b) *Fungi & Lichens :*

- AGARWAL, D.K., L.D.AHUJA, J.L.VARSHNEY & A.K.SARBHOY,** *Ustilago vilfae* Wint., a new record from India. *Curr.Sci.* 46 (1977) 206.
- AGARWAL, G.P. & P.N.CHOWDHRY,** *Dactylaria indica* Agarwal and Chowdhry, a new fungus from soil. *Curr.Sci.* 46 (1977) 352-353, 3 fig.
- APINIS, A.E. & R.G.REES,** An undescribed keratinophilic fungus from Southern Queensland. *Trans.Br.Mycol.Soc.* 67 (1976) 522-524, 1 fig.
- AWASTHI, D.D. & P.AKHTAR,** The genus *Leptogium* (sect. *Mallotium*) in India. *Norw.J.Bot.* 24 (1977) 59-71, 26 fig. Key to 13 spp. (1 new).
- BALAZUC, J.** Laboulbeniales nouvelles (Ascomycètes), parasites de Coléoptères exotiques. *Bull.Mus.Nat.Hist.Nat.Paris* sér.3, no 442 (1977) Bot. 29: 1-14, 7 fig. Incl. also n.sp. from Malaya and Borneo.
- BASU, M. & B.S.MEHROTRA,** Additions to the fungi in stored cereal grains in India. I. *Nova Hedwigia* 27 (1976) 785-791, 14 fig., 1 pl. Penicilliums listed.
- & ----- Ditto. II. *Nova Hedwigia* 27 (1976) 792-799, 18 fig., 1 pl. A few spp. listed.
- BEATON, G. & G.WESTE,** Some Australian leaf-inhabiting Discomycetes. *Trans.Br.Mycol.Soc.* 67 (1976) 443-448, 5 fig. 5 spp. from Victoria.
- & ----- Australian Discomycetes on dead logs and branches. *Trans.Br.Mycol.Soc.* 67 (1976) 449-454, 5 fig. 5 records from Victoria.
- & ----- New species of Helotiales and Phacidiales from Australia. *Trans.Br.Mycol.Soc.* 68 (1977) 73-77, 4 fig.
- & ----- Zoellneria species from Victoria, Australia. *Trans.Br.Mycol.Soc.* 68 (1977) 79-84, 4 fig. 4 spp.; key; 1 n.sp.
- & ----- The genus *Labyrinthomyces*. *Trans.Br.Mycol.Soc.* 69 (1977) 243-247, 3 fig. Key to 3 spp. which is now known from N. Africa, Java, and E. Australia.
- & ----- Australian Discomycetes: a new *Vibrissa* species. *Trans.Br.Mycol.Soc.* 69 (1977) 323-325, 1 fig. Key to 4 spp. of SE. Australia.

- BHARGAVA, K.S. *Some fungi hitherto unreported from India.*  
*Curr. Sci.* 46 (1977) 54, 1 fig.  
 2 spp. (none new).
- BLANTON, R.L. *Pseudocolus fusiformis*, new to North Carolina.  
*Mycologia* 68 (1976) 1235-1239, 3 fig.  
 Also known from Java.
- BOIDIN, J. & P. LANQUETIN, *Scytinostroma albo-cinctum et S. phaeosarcum* sp.nov. (*Basidiomycètes, Lachnocladiaceae*).  
*Kew Bull.* 31 (1977) 621-628, 2 fig., 1 map.  
 1 n.sp., 1 new comb. From Ceylon, Malesia and other tropics.
- BOSE, S.K. *A leaf-spot disease of the dwarf hill date palm Phoenix humilis caused by Apiosphaeria indica* sp.nov.  
*Indian Phytopath.* 28 (1975) 574-575, 1 fig.
- BOWLER, P.A. & C.W. SMITH, *Ramalina farinacea* in Hawaii. *The Bryologist* 79 (1976) 499-501.
- BRATT, G.C. & J.A. CASHIN, *Additions to the lichen flora of Tasmania. II.* *Pap. & Proc. R. Soc. Tasm.* 110 (1976) 139-148.  
 Total is estimated 460 spp. Here some 100 taxa are recorded new; they are listed.
- \*BRODO, I.M. & D.L. HAWKSWORTH, *Alectoria and allied genera in North America.* *Opera Botanica* 42 (1977) 164 pp., 69 fig. & maps.  
 Keys to spp., a few also in E. Asia.
- BRUMMELEN, J. VAN, *A new genus of Pezizales from Thailand.* *Kew Bull.* 31 (1977) 617-620, 1 fig.  
 On dung of deer.
- BUTZIN, F. *Boerlagiomyces, ein neuer Name für die Pilzgattung Boerlagella.* *Willdenowia* 8/1 (1977) 37-40.  
 Based on 2 Javanese spp.; name change through homonymy.
- CALONGE, F.D. & M. DE LA TORRE, *Gyromitra tasmanica* (Berk.) Berk. & Cooke, new to Europe. *Trans. Br. Mycol. Soc.* 68 (1977) 483-484, 2 fig.
- CHAN BIN FAI, *Fungi galore.* *Nature Malesiana* 2 (1) (1977) 34-41, 17 col.photogr.  
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- CHANDRA, S. *Some new leaf-spot diseases from Allahabad (India).* *Nova Hedwigia Beih.* 47 (1974) 35-101, 11 pl.  
 Descr. and fig. (no n.spp.).

- CHEN, PING-CHAO & HSING-HSIUNG HOU, *Studies on the host range of Jelly Fungus Tremella fuciformis Berk.* Taiwan Mushrooms 1 (1977) 65-70, 2 fig., 2 tab.
- CHOWDHURY, S.R. *Some hitherto unrecorded fungi from Bilaspur (M.P.). Indian Phytopath.* 28 (1975) 390-392, 1 fig.
- CLIFFORD, W.S. *Notes on Hawaiian Lichens. I. Obligately foliicolous species.* The Bryologist 80 (1977) 342-343. Name list.
- COLES, R.B. & P.H.B. TALBOT, *Septobasidium clelandii and its conidial state Harpographium corynelioides.* Kew Bull. 31 (1977) 481-488, 3 fig. Details on this Australian species.
- DAVID, A. & M. JACUENOUD, *Tremellales with tubular hymenophores found in Singapore.* Gard. Bull. Sing. 29 (1977) 151-153, 1 fig., 1 pl. *Aporpium hexagonoides*, n.sp., with comment on another sp. close to *A. dimidiatum*.
- DAYAKAR YADAV, B.R. & V.G. RAO, *A new species of Micropera Lev. (Coelomycetes) from Maharashtra (India).* Curr. Sci. 46 (1977) 392, 1 fig.
- DESCALS C., E., J. WEBSTER & B.S. DYKO, *Taxonomic studies on aquatic Hyphomycetes. I. Lemonniera De Wildeman.* Trans. Br. Mycol. Soc. 69 (1977) 89-109, 7 fig., 2 tab. Key to 6 spp.
- DINGLEY, J.M. *Some notes on New Zealand Pyrenomyctetes.* Kew Bull. 31 (1977) 629-633, 2 fig. 3 spp. (none new).
- *Additions to the rust fungi of New Zealand. VI.* New Zeal. J. Bot. 15 (1977) 29-37, 2 fig. 8 spp. new to New Zealand.
- DOGMA Jr, I.J. *Philippine zoosporic fungi: Olpidium sparrowii, a new chytridiomycete parasite of rotifer eggs.* Kali-kasan 6 (1977) 9-20, 16 fig., 1 tab.
- DOI, Y. *Protocreopsis, a new genus of the Hypocreales.* Kew Bull. 31 (1977) 551-555, 3 fig. N.g., 2 n.spp. from New Britain and Papua on palm and ginger.
- , J.S. DARGAN & K.S. THIND, *Cavimalum, a new genus of the bambusicolous Clavicipitales from Asia.* Bull. Nat. Sci. Mus. Tokyo ser. B Bot. 3 (1977) 23-31, 6 fig. 2 spp., one from Borneo.

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- ENDO, M. & T. HONGO, *Materials for the fungus flora of Japan (24).* Trans. Mycol. Soc. Japan 17 (1976) 345-348, 2 fig. 2 spp. descr.; 1 new comb.
- ESSLINGER, T.L. *A chemosystematic revision of the brown Parmeliae.* J. Hattori Bot. Lab. no 42 (1977) 1-211, 41 pl., 11 tab.
- Taxon. treatment comprises many Asian-Malesian taxa.
- FILSON, R.B. *Australian lichenology: a brief history.* Muehlenia 3 (1976) 183-190.
- History of development of knowledge; bibliography.
- FURUYA, K. & SHUN-ICHI UDAGAWA, *A new species of Triangularia (Ascom.).* J. Jap. Bot. 51 (1976) 406-408, 2 fig.
- & ----- *Coprophilous Pyrenomyctetes from Japan IV.* Trans. Mycol. Soc. Japan 17 (1976) 248-261, 12 fig. Several n.spp.
- & ----- *New species of Gelasinospora and Anixiella.* Trans. Mycol. Soc. Japan 17 (1976) 313-320, 5 fig. N.sp. from Japan and Thailand.
- GALLOWAY, D.J. *Additional notes on the lichen genus Cladina Nyl. in New Zealand.* Nova Hedwigia 28 (1977) 475-486, 2 pl.
- Key to 5 spp. (1 new).
- *The lichen genus Thysanothecium Mont. & Berk., an historical note.* Nova Hedwigia 28 (1977) 499-513, 1 pl.
- & P.W. JAMES, *Pseudocyphellaria berberina (G. Forster) D. Gall. & P. James: notes on its discovery and synonymy.* The Lichenologist 9 (1977) 95-105, 3 pl.
- Concerns also New Zealand records.
- GAMUNDI, I.J. *Acerca de los géneros Baudiera Cooke y Sphaerosoma Klotzsch (Fungi, Pezizales).* Sydowia 28 (1976) 339-352, 22 fig.
- GHOSH, R.N., N.C. PATHAK & M.S. SINGH, *The genus Chlorophyllum in India.* Indian Phytopath. 29 (1976) 50-53, 6 fig. Descr.
- , ----- & ----- *Two new records of stilbaceous fungi from India.* Norw. J. Bot. 24 (1977) 79-81, 6 fig., 1 tab.
- GINNS, J. *Corneromyces kinabaluui, gen. nov., sp. nov. (Aphyllophorales, Coniophoraceae).* Mycologia 68 (1976) 970-975, 6 fig.

- GREEN, T.G.A. & W.P. SNELGAR, *Parmelia scabrosa* on glass in New Zealand (*Lichenes*). *The Lichenologist* 9 (1977) 170-172, 1 pl.
- GUPTA, P.C. & R.L. MADAAN, Diseases of fruits from Haryana. A new leaf spot disease of *Zizyphus mauritiana* Lamk. *Curr. Sci.* 46 (1977) 237-238, 2 fig.  
*Isariopsis indica* var. *ziziphi* var. nov.
- HALL, I.R. Species and mycorrhizal infections of New Zealand Endogonaceae. *Trans.Br.Mycol.Soc.* 68 (1977) 341-356, 13 fig.  
Several genera; several n.spp. in Glomus, one in Gigaspora; all mycorrhiza.
- HARADA, Y. *Puccinia caricis-petasitidis*, sp. nov., a heteroecious Carex rust fungus from Japan. *Trans.Mycol.Soc.Japan* 18 (1977) 170-175, 6 fig., 3 tab.
- & S. KATSUKI, A new species of *Cercosporella* on *Aesculus turbinata* Blume. *Trans.Mycol.Soc.Japan* 17 (1976) 286-288, 4 fig.
- & T. KUDO, On two species of *Monilinia* new to Japan. *Trans.Mycol.Soc.Japan* 17 (1976) 126-131, 8 fig., 2 tab.
- Haware, M.P., L.K. JOSHI & N.D. SHARMA, Some rhizomicolous and foliicolous fungi of Ginger from India. II. *Sydowia* 28 (1976) 143-147.  
15 spp. listed; no new.
- HAWKSWORTH, D.L. *Rhopalostroma*, a new genus in the Xylariaceae s.l. *Kew Bull.* 31 (1977) 421-431, 4 fig.  
Key to 6 spp. (4 new comb., 1 n.sp.).
- Taxonomic and biological observations on the genus *Lichenoconium* (*Sphaeropsidales*). *Persoonia* 9 (1977) 159-198, pl. 21-29, 2 fig., 5 tab.  
Key to 10 spp. of a genus of lichenicolous Fungi imperfecti; some new spp. and comb.; also in New Zealand and Australia.
- & SHUN-ICHI UDAGAWA, Contributions to a monograph of *Microthecium*. *Trans.Mycol.Soc.Japan* 18 (1977) 143-154, 5 fig.  
Key to 13 spp. (some n.spp.); some from Australia.
- HIRATASUKA, N. Additions to "A list of Uredinales found in Mt. Daisen, Daisen-Oki National Park, Western Honshu, Japan". *Rept.Tottori Mycol.Inst.Japan* 15 (1977) 43-44.
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Name list.

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- *Eine weitere Siphonolejeunea - S. elegantissima (Steph.) comb. nov. aus Australien (Hepat.)*. J.Hattori Bot.Lab. no 41 (1976) 405-409, 1 fig.
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Riccardia and Aneura from Fiji and New Caledonia; incl. new comb. and n.spp.

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----- Notes on the Plagiochilaceae. VI. Studies in the genus Plagiochila (Dum.) Dum. in the Hawaiian Islands. J.Hattori Bot.Lab. no 40 (1976) 411-440, 13 fig.  
Key to spp.

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----- Phytogeographical studies on the Hepaticae of Mt. Iide, Northern Japan. Bull.Nat.Sc.Mus.Tokyo ser.B (Bot.) 2 (1976) 153-165.

Species analysis.

----- Studies on Taiwan Hepaticae. II. Herbertaceae. Bull. Nat.Sc.Mus.Tokyo ser.B (Bot.) 3 (1977) 1-11, 6 fig.  
Key to 5 spp.

IWATSUKI, Z. Bryological miscellanies. XXI-XXII. J.Hattori Bot.Lab. no 40 (1976) 139-149, 6 fig.  
Pseudoleskeopsis zippelii.

----- Two interesting species of Fissidens found in the Ryukyu Islands. Misc.Bryol.et Lichen. 7, no 7 (1977) 129-132, 2 fig.

----- Tristichella glabrescens, a new species of Sematophyllaceae (Musci) with a special reference to Clastobryum indicum. Bull.Nat.Sc.Mus.Tokyo ser.B (Bot.) 3 (1977) 13-22, 5 fig.

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- & A.J.SHARP, *Notes on Rhachithecium in Assam, India.* Misc.Bryol.et Lichen. 7, no 6 (1976) 105-107, 1 fig. 2 spp. treated.
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- KANDA,H. *A revision of the family Amblystegiaceae of Japan.* I. J.Sci.Hiroshima Univ. ser.B, Div. 2 Bot. 15 (1975) 201-276, 32 fig. & maps.  
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- & MING-JOU LAI, *Rhizomnium tuomikoskii T.Kop.* (*Mniaceae*) newly recorded from Taiwan. Quart.J.Taiwan Mus. 29 (1976) 497-498.
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Name list.

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Curr. Sci. 46 (1977) 618.  
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- MIZUTANI, M. Studies of little known Asiatic species of Hepaticae in the Stephani Herbarium. 9. Some little-known species of the family Lejeuneaceae. J.Hattori Bot.Lab. no 40 (1976) 441-446, 1 fig.
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Name list; 1 n.sp.
- *Lejeunea magohukui* Mizut., sp.nov. from Japan. Misc. Bryol.et Lichen. 7, no 7 (1977) 132-134, 1 fig.
- & S.HATTORI, Hepaticae japonicae exsiccatae ser. 1-20. Alphabetical list of species. J.Hattori Bot.Lab. no 40 (1976) 327-353.
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Descr.
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- SEKI, T. Taxonomic memoranda on the Sematophyllaceae and their allies. Hikobia 8 (1977) 137-149, 4 fig., 1 tab.  
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- SEPPELT, R.D. Studies on the Bryoflora of Macquarie Island. I. Introduction and checklist of species. The Bryologist 80 (1977) 167-170, 1 tab.  
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 Revision; key.
- STONE, I.G. *Alaticosta, a new subgenus of Acaulon, in Australia.* J.Bryol. 9 (1976) 213-227, 7 fig., 1 pl.  
 2 n.spp.
- *A new species of Pleuridium from Australia.* J.Bryol. 9 (1976) 229-238, 3 fig., 1 pl.
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- TAODA, H. *Studies on the Fabroniaceae of Japan. I. Hikobia* 8 (1977) 46-58, 4 fig., 1 tab.  
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- *Bryophytæ Indosinicae. XXIII. A preliminary contribution to the knowledge of the coastal southern Bryoflora of Cambodia.* Nat.Hist.Bull.Siam Soc. 26 (1975) 11-24, 1 map.
- TOUW, A. *A taxonomic revision of Thuidium, Pelekium and Rauiella in South Africa south of the Sahara.* Lindenbergia 3 (1976) 135-195.  
 16 spp.; key; one sp. also in Malesia.

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Holarctic sp.

----- & S.C.SRIVASTAVA, A new species of *Fossombronia Raddi*, *F. foreaui Udar et Srivastava* from Kodaikanal (Palni Hills), South India. Nova Hedwigia Beih. 47 (1974) 463-468, 2 pl.

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From New Zealand.

WATANABE, R. A note on *Thuidium stevensii* Ren. et Card. from Himalayas (Musci). Misc.Bryol.et Lichen. 7 (1976) 89-90, 1 fig.

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New comb. in *Blechnum*, and other polypodiaceous genera.

BHARDWAJA, T.N. & P.SHARMA, Distribution, intraspecific variation and epidermal studies of *Marsilea coromandeliana* Willd. in India. Nova Hedwigia 28 (1977) 451-462, 18 fig. (1 map), 1 tab.

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- BIERHORST,D.W. *The systematic position of Psilotum and Tmesipteris.* Brittonia 29 (1977) 3-13, 1 fig.  
They are Filicalean ferns.
- BIR,S.S. & C.K.TRIKHA, *Taxonomy of the Indian species of genus Cystopteris Bernh.* Nova Hedwigia Beih. 47 (1974) 1-21, 35 fig.  
Key to 6 spp.
- BRAITHWAITE,A.F. *A chromosome count and range extension for Christensenia (Marattiaceae).* Amer.Fern J. 67 (1977) 49-50, 1 fig.  
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- \*BROWNLIE,G. *The Pteridophyte Flora of Fiji.* Nova Hedwigia Beih. 55 (1977) 1-397, 44 pl.  
An up to date fern flora with keys, descriptions and some figures. Incl. some n.spp. and n.comb. Important monograph.
- BROWNSEY,P.J. *A taxonomic revision of the New Zealand species of Asplenium.* New Zeal.J.Bot. 15 (1977) 39-86, 33 fig. & maps.  
14 spp. and 4 subsp. keyed out (1 sp., 3 subsp. new).  
Very many polyploids.
- CHANDRA,P. & S.DEVI, *The lypteris augescens (Link) Munz & Johnston: a new record from India.* J.Bomb.Nat.Hist.Soc. 73 (1976) 244-247, 10 fig.
- COKE,P.G. *Thoughts on Australian ferns.* Brit.Pterid.Soc.Bull. 1 (1977) 205-209.  
Fern hunting travel report in S. Queensland and New South Wales.
- COOK,C.D.K. *Salvinia in Kerala, S. India and its control.* In Varshney & Rzóska (ed.), Aquatic Weeds SE. Asia (1976) 241-243.  
S. molesta; no mention of S. cucullata.
- CRABBE,J.A. *A list of Holttum's new taxa and name-changes in ferns to July 1975.* Gard.Bull.Sing. 30 (1977) 221-238.  
List of c. 700 spp.
- DHIR,K.K. & K.S.DATTA, *Ferns of Dharamsala Hills.* 3 (North Western Himalayas). Thelypteridaceae, Aspleniaceae and Blechnaceae. Nova Hedwigia 28 (1977) 137-154, 13 fig.  
Records; no new spp.
- & P.S.SHEERA, *Ecological and phytogeographical observations on the Pteridophytes of Dharamsala Hills (N.W.Himalayas).* Nova Hedwigia 26 (1975) 353-371, 9 fig.  
Ecology and name list.

HENNIPMAN, E. A second species of *Pteridoblechnum* (*Blechnaceae*) formerly referred to *Leptochilus acuminatus* C.T. White and Goy. Proc.R.Soc.Qd. 87 (1976) 95-98, 5 fig. New comb.; key to 2 spp.

\*----- A monograph of the fern genus *Bolbitis* (*Lomariopsidaeae*). Leiden Univ.Press: Leiden Bot.Ser. 2 (1977) xii + 331 pp., 12 pl., 87 fig.

Complete monograph, with new sectional subdivision. Key to 44 spp. and a number of hybrids and dubious spp. Extensive valuable introduction on morphological and other characters, chromosomes and especially the influence of neoteny in phylogeny. Two n.spp. (one from India formerly descr. as var.; one from Louisiades) and a few new varieties and forms. Identification list given. — Reviewed on page 3063.

HOLTTUM, R.E. *The lypteridaceae allied to Phegopteris in Malaya*. Gard.Bull.Sing. 29 (1977) 145-150.

*Metathelypteris* (3 spp., key; n = 35), *Macrothelypteris* (1 sp., n = 31), and *Pseudophegopteris* (2 spp., n = 31) form a natural group, with midrib of pinnae prominent but not grooved above, veins not reaching the margin. They are fully written up; some nomenclatural notes. — M.J.

----- *Studies in the family Thelypteridaceae. XIII. The genus Amphineuron Holttum*. Blumea 23 (1977) 205-218. Key to 10 spp.; new comb.; 1 n.sp.

----- Two species of *Cyathea* common to Pulau Tioman and Mt. Kinabalu. In Lee, c.s., *The natural history of P. Tioman* (1977) 37.

Both are not found in Malaya proper, but not confined to Kinabalu and P. Tioman.

HOSHIZAKI, B.J. *Staghorn ferns today and tomorrow*. Gard.Bull. Sing. 30 (1977) 13-15.

Some general notes on *Platycerium*.

IWATSUKI, K. *Studies in the systematics of filmy ferns. II. A note on Meringium and the taxa allied to this*. Gard. Bull.Sing. 30 (1977) 63-74, 4 pl.

Classification of *Meringium* and allied genera integrated under *Hymenophyllum* s.l.

JERMY, A.C. & T.G.WALKER, *A note on the cytology of Botrychium lanuginosum and the occurrence of the genus in Malesia*. Gard.Bull.Sing. 30 (1977) 293-298, 5 fig., 1 pl.

Octo- and hexaploid (n = 180 and 135) in New Guinea. Key to 3 spp.

- JONCHEERE, G.J. DE, *Specific concept in Humata pectinata (J.E. Smith) Desv.* Gard.Bull.Sing. 30 (1977) 45-58, 7 fig. Concludes that many names must be referred to a wide-spread polymorphous species.
- JONES, D.L. *A new species of Lastreopsis (Aspidiaceae) from North-East Queensland.* Muelleria 3 (1977) 245-249, 1 fig.
- \*----- & S.C. CLEMESHA, *Australian ferns and fern allies.* Sydney (1976) 294 pp., 253 fig., 59 col.photogr., 8°. A mimeographed correction sheet added. + Popular; descr.; no keys.
- KATO, M. *Classification of Athyrium and allied fern genera of Japan.* Bot.Mag.Tokyo 90 (1977) 23-40, 7 fig. Many new comb. under Deparia.
- KRAMER, K.U. *Synapsospory: a hypothesis. A possible function of spore sculpture in pteridophytes.* Gard.Bull.Sing. 30 (1977) 79-83. Assumed to be important for the chance of intergametophytic fertilization.
- KURATA, S. & T. NAKAIKE, *A note on Cyclogramma flexilis (Christ) Tagawa (Thelypteridaceae).* Mem.Nat.Sc.Mus.Tokyo no 9 (1976) 105-109, 2 fig. Continental Asian sp. now also found in Japan.
- & C. IKEBE, *On the systematic position of Pleurosoriopsis makinoi (Maxim.) Fomin.* J.Jap.Bot. 52 (1977) 39-48, 7 fig.
- LIEW, FAH-SEONG, *Scanning electron microscopical studies on the spores of Pteridophytes. I. The genus Pyrrosia Mirbel (Polypod.) found in Taiwan.* Quart.J.Taiwan Mus. 29 (1976) 191-216, 8 pl., 1 tab.
- LÖVE, A. & D. LÖVE, *New combinations in ferns.* Taxon 26 (1977) 324-326.
- LUM, K.N., A.N. RAO & C.S. LOW, *Developmental morphology of Drymoglossum piloselloides.* Nova Hedwigia Beih. 47 (1974) 531-545, 34 fig. Details.
- MARSDEN, C.R. *A new subspecies of Isoetes coromandelina from Northern Australia.* Contr.Herb.Austr. no 24 (1976) 10 pp., 24 fig., 1 tab.
- *Morphological variation and taxonomy of Isoetes muelieri A.Br.* J.Adelaide Bot.Gard. 1 (1976) 37-54, 29 fig., 1 map. Polyploid series in the species; I. stuartii A.Br. is reduced to it.

- NAIR,N.C. & S.R.GHOSH, *The nomenclature of Adiantum cuneatum Langsd. et Fisch. and the distribution of the taxon in India.* Acta Bot. Indica 2 (1974) 77-78.  
 Confused with *A. capillus-veneris*; is an introduced sp. from tropical America; new name proposed.
- & ----- *Pteris tremula R.Br.*, a new record for India. J.Bomb.Nat.Hist.Soc. 73 (1976) 240.
- & ----- *Pteris roseo-lilacina Hieron.*, a new record for Peninsular India. J.Bomb.Nat.Hist.Soc. 73 (publ. 1977) 424-425.
- & ----- *On the identity of Adiantum lyratum Blanco.* J. Bomb.Nat.Hist.Soc. 74 (1977) 210-211.
- NAKAIKE,T. A contribution to the fern flora of New Guinea. II. Bull.Nat.Sc.Mus.Tokyo ser.B Bot. 2 (1976) 47-52, 2 fig., 1 pl.  
 6 spp., one *Polystichum* n.sp.
- Ditto. III. Bull.Nat.Sc.Mus.Tokyo ser.B Bot. 2 (1976) 99-105, 2 fig.  
 10 spp. discussed (none new).
- PANIGRAHI,G. A new species of *Thelypteris* from Sri Lanka (*The-lypteridaceae*). Kew Bull. 31 (1976) 187-188.
- PICHI SERMOLLI,R.E.G. *Fragmenta Pteridologiae. VI.* Webbia 31 (1977) 237-259.  
 Several new genera in Polypod., Hymenoph., Athyriac.; many new comb.; *Marginaria* reinstated.
- *Tentamen Pteridophytorum genera in taxonomicum ordinem redigendi.* Webbia 31 (1977) 313-512, 20 fig., 1 tab.  
 Generic list; affinities and phylogeny discussed under each family.
- PIETERSE,A.H., L.DE LANGE & J.P.VAN VLIET, A comparative study of *Azolla* in The Netherlands. Acta Bot.Neerl. 26 (1977) 433-449, 3 fig., 4 tab.  
 2 spp. compared.
- PIGGOTT,A.G. The ferns of Gunong Ulu Kali. Gard.Bull.Sing. 30 (1977) 31-43, 2 pl.  
 Name list. Ulu Kali is the southernmost high peak in the Main Range.
- PRICE,M.G. *Philippine Dryopteris.* Gard.Bull.Sing. 30 (1977) 239-250, 1 fig.  
 Key to 13 spp. (2 new).
- SAHASHI,N. Spore morphology of the Japanese species of the Botrychiaceae. J.Jap.Bot. 51 (1976) 326-338, 6 fig., 6 pl.

- SERIZAWA, S. *Taxonomical notes on Asian ferns (6)*. J.Jap.Bot. 52 (1977) 14-18.  
 2 *Diplaziums*, 1 *Dryopteris* from Ryukyus.
- SOEPADMO, E. & E.E.KHOO, *Spore morphology of Malayan Dennstaedtiaceae sensu Holttum*. Gard.Bull.Sing. 30 (1977) 85-95, 10 pl.  
 28 spp. of 8 genera; 7 distinct spore types, which however do not conform to classification.
- STONE, B.S. *Copelandiopteris endoneura* (Price) Stone, comb. nov. (*Polypod.*). Kalikasan 5 (1976) 329-331.  
 3 spp. named (1 new comb.).
- SUBBA RAO, G.V., G.R.KUMARI & V.CHANDRASEKARAN, *Notes on some rare plants collected from Nilgiri District, South India*. Bull.Bot.Surv.India 15 (publ. 1976) 275-276, 1 fig.  
 One fern, one orchid.
- TELFORD, I. *Australian ferns*. Austr.Plants 9, no 70 (1977) 72-74, 2 fig.  
 Popular.
- WAGNER Jr, W.H. *Systematic implications of the Psilotaceae*. Brittonia 29 (1977) 54-63, 2 fig., 1 tab.  
 Psilotopsida.
- & F.S.WAGNER, *Fertile-sterile leaf dimorphy in ferns*. Gard.Bull.Sing. 30 (1977) 251-267, 2 fig., 3 tab.  
 Morphological-ecological discussion.
- e) *Spermatophytes & General subjects :*
- ALRASJID, H. & I.SOERIANEGARA, *A preliminary guide for planting Ramin (Gonostylus bancanus Kurz)*. Lembaga Penelitian Hutan Bogor, Laporan no 231 (1976) 11 pp. mimeogr. 5 pl.  
 In Indonesian, English summary. Regeneration and silviculture in ramin forest (*Gonostylus* spp.).
- ANDERSON, J.A.R. *Observations on the ecology of five peat swamp forests in Sumatra and Kalimantan*, p. 45-73 in *Peat and Podzolic Soils in Indonesia* (Bogor, 1976), described below.  
 Series of sample plots were made in virgin forest, at Teluk Kiambang, at Muara Tolam, and at Sg. Siak Kecil in Riau province, Sumatra, at Sg. Durian/Rasau in W. Kalimantan, and at Sg. Sebangau in Central Kalimantan. Herbarium samples were apparently not collected.  
 The tree flora in the Borneo swamp forests is somewhat richer than in Sumatra; the most significant differen-

ces are, however, in the padang. A catenary sequence of vegetation types occurs in all stations, but in Borneo the zones are less sharp. In Borneo occur more trees per unit area, but in Sumatra the trees are larger, particularly *Durio carinatus*. The most important species are named, and essential figures are given. *Combretocarpus rotundatus*, a typical Bornean padang species, was found in Sumatra. Grasses are rare in virgin swamp forest and gramineous crops probably unsuited; legume fodder crops may do better.—M.J.

\*ANONYMUS, *Honolulu Botanic Gardens Inventory 1975*. Friends of Foster Garden Press, Honolulu (1975) 195 pp. mimeogr. Important garden catalogue; names alphabetically arranged.

ANONYMUS (Lab. of Vegetable Fats and Oils, Inst. of Botany, Yunnan), *Introduce an edible oil woody plant - Cleidio-carpon cavaleriei* (Lévl.) Airy Shaw (Euph.) *Acta Phytotax. Sin.* 14 (1976) 57-60, 1 fig.  
From China. In Chinese language.

ARMSTRONG, P. *Baobabs: remnant of Gondwanaland?* *New Scientist* 73 (1977) 212-213, 3 photogr., 1 map.  
Some details on sizes, age, ethnobotany and introduction by Arabs in Asia; some taxa of similarly disjunct range.

ARMSTRONG, R.J. *The New Guinea Impatiens. Impatiens of Tomorrow!* (Balsam.) *Bull. Pac. Trop. Bot. Gard.* 7 (1977) 49-52, 6 col.photogr.  
Cultivars of the variable *I. platypetala*.

ARORA, R.K. & M.W. HARDAS, *Occurrence of Solanum integrifolium and S. gilo in Northeastern Hills*. *J. Bomb. Nat. Hist. Soc.* 73 (publ. 1977) 423-424.

ARSJIK, A.H. & PUDJIHARTA, *Pengaruh penggunaan tanah tegalan dengan berbagai macam tanaman setahun terhadap erosi dan runoff di Waspada, Garut*. Lembaga Penelitian Hutan Bogor, Laporan no 239 (1976) 27 pp. mimeogr., tab.  
Erosion and run-off; maize combined with red beans better than single crops of tobacco or potato.

ASHTON, P.S. *Mixed Dipterocarp forest and its variation with habitat in the Malayan lowlands: A re-evaluation at Pasoh*. *Malays. For.* 39 (1976) 56-72, 8 fig., 1 tab.  
Sociology by numerical methods.

----- *Dipterocarpaceae*. *Rev. Handb. Fl. Ceylon* 1 (2) (1977) 166-196.

Doona a section of *Shorea*; *Monoporandra* under *Stemonoporus*. No new names. All species are endemic.

- *Ecology and the durian theory.* Gard.Bull.Sing. 29 (1977) 19-23.  
Monkeys select fruits on colour, not on maturity; they dexterously deal with spiny plant defenses. Economy is a guideline to understand tree and leaf shape. Early advantage of schopfbaum in competition for light. Succession from secondary to primary forest to some extent repeats evolution.—M.J.
- ASTON, H.I. *Hypecoum pendulum L. (Papaveraceae) in Australia - a new introduction.* Muelleria 3 (1976) 177-182, 1 fig.
- AUSTIN, D.F. *Ipomoea carnea Jacq. vs. Ipomoea fistulosa Mart. ex Choisy (Conv.)* Taxon 26 (1977) 235-238, 2 fig.  
I. fistulosa made into a new subsp. of I. carnea; ecology of the subsp. is allopatric.
- BAHADUR, K.N. & R.C.GAUR, *On the nomenclature of two Indian Acacias.* Acta Bot. Indica 4 (1976) 66-67.  
A. rugata and A. gamblei nom.nov.
- BALAKRISHNAN, N.P. *A new species of Euphorbia from Burma (Euph.).* J.Bomb.Nat.Hist.Soc. 73 (1976) 189-190, 1 pl.  
Of the American section Laurifoliae.
- & N.G.NAIR, *Eulophia nicobarica Balakr. & N.G.Nair (Orchidaceae) - A new species from Car Nicobar Island.* Bull.Bot.Surv.India 15 (publ. 1976) 271-273, 1 fig.
- BALAPURE, K.M. *Two new plant records for Nagpur (Maharashtra).* J.Bomb.Nat.Hist.Soc. 73 (1976) 243-244.
- BANERJI, M.L. & B.B.THAPA, *Orchids of Nepal.* 10. J.Bomb.Nat. Hist.Soc. 73 (1976) 149-156, 8 fig.  
Key to 3 spp. of Orchis; records of Bulbophyllum, Dendrobium, Anoectochilus, Herminium, Spathoglottis, Geodorum.
- BANGERTER, E.B. *New and interesting records of adventive plants from the Auckland Institute and Museum Herbarium* 2. Rec.Auckland Inst.Mus. 13 (1976) 95-100.  
Species listed.
- \*BARTHLOTT, W. & N.EHLER, *Raster-Elektronenmikroskopie der Epidermis-Oberflächen von Spermatophyten.* Tropische und Subtropische Pflanzenwelt 19 (1977) 105 pp., 119 Abb. (Ak.Wiss.u.Lit., Math.-Naturw.Kl., Mainz).  
2100 Angiosperms examined; important anatomical data.
- \*BEADLE, N.C.W. *Student's Flora of North Eastern New South Wales. Part III. Angiosperms. Families 84-106.* Univ.New England, Armidale (1977).

- BEALES, R.W. *A red tide in Brunei's coastal waters.* Brunei Mus.J. 3, no 4 (1976) 167-182, 3 maps, 5 tab.  
 Large-scale blooms caused by a poisonous dinoflagellate *Pyrodinium bahamense*, obviously pantropic, also observed in Papua. Blooms may occur throughout the year.
- BEARD, J.S. *Tertiary evolution of the Australian flora in the light of latitudinal movements of the continent.* J.Bio-graphy 4 (1977) 111-118, 4 fig.  
 Changing ecology since Eocene, with consequences for both everwet and arid flora which expanded largely since the Miocene. Sclerophyll caused by edaphic factors.
- BENNET, S.S.R. & K.C.SAHNI, *Nomenclatural notes on three celastraceous species from India.* Indian For. 103 (1977) 387-388.  
 3 new comb. in *Maytenus*.
- & ----- *Scurrula ferruginea* (Jack) Danser from Western Peninsula of India. (Loranth.) Indian For. 103 (1977) 475-476.
- BERG, C.C. *The Castilleae, a tribe of the Moraceae, renamed and redefined due to the exclusion of the type genus Olmedia from the 'Olmedieae'.* Acta Bot.Neerl. 26 (1977) 73-82, 2 fig.  
*Antiaropsis* from New Guinea and *Sparattosyce* from New Caledonia do not belong to Olmedieae, but are related to *Phyllochlamys*.
- BHANDARI, M.M. & V.S.SHARMA, *A new *Tribulus* (Zygophyllaceae) from India.* Bot.Notis. 129 (1976) 367-369, 1 fig.
- BHATTACHARYYA, U.C. & M.V.BISWANATHAN, *A new variety of *Saxifraga poluniniana* H. Smith from Western Himalaya.* Bull. Bot.Surv. India 15 (publ. 1976) 269-271, 1 fig.
- BIMANTORO, R.R. *Gamal* (*Gliricidia maculata* H.B.K.) (Legum.)  
 Bul.Kebun Raya Indon. 2 (1976) 137-144, 6 fig.  
 With English summary.
- BIRARI, S.P. & R.D'CRUZ, *A new species of *Pseudanthistiria* (Hack.) Hook. f. from India* (Gram.) J.Bomb.Nat.Hist. Soc. 73 (1976) 192-194, 5 fig.
- BISBY, F.A. & K.W.NICHOLLS, *Effects of varying character definitions on classification of Genisteae (Legum.).* Bot. J.Linn.Soc. 74 (1977) 97-121, 11 fig.  
 Various sets of characters tried on 175 spp. gave different classifications.
- BISSET, N.G. & J.D.PHILLIPSON, *The Asian species of *Strychnos*. IV. The Alkaloids* (Logan.) Lloydia 39 (1976) 263-325, 11 tab., 24 fig.

- BLAKE, S.T. *Four new species of Eucalyptus (Myrt.) Austrobailleya* 1 (1977) 1-10.  
Two from Queensland (of which one also in New Guinea: *E. brassiana*), one from New Guinea and one from the Lesser Sunda Islands (*E. urophylla*).
- BLAXELL, D.F. *Comments on "Dendrobium capituliflorum Rolfe in Australia"* (Orch.) *The Orchadian* 5 (1976) 88.  
A confused name in Australia of this New Guinea sp.
- BOITEAU, P., L. ALLORGE & T. SÉVENET, *Apocynacées de Nouvelle-Calédonie: Révision des Alstonia*. *Adansonia* 16/4 (1977) 465-485, 6 pl.  
Key to 14 spp. all endemic (3 new). Some spp. have neotenous juveniles.
- BRETELER, F.J. *America's Pacific species of Rhizophora*. *Acta Bot. Neerl.* 26 (1977) 225-230, 1 map.  
R. harrisonii maintained to be a hybrid, though it occurs in Pacific W. America with only 1 parent. How it can then maintain itself there is not clear to me.— v.St.
- BRIEGER, F.G. *On the orchid system: General principles and the distinction of subfamilies*. Proc. 8th World Orchid Conf. Palmengarten Frankf. April 1975 (1976) 488-504.  
General considerations on various aspects.
- BRIGGS, B.G., R.C. CAROLIN & J.M. PULLEY, *Plantaginaceae*. Fl. N.S.W. no 181 (1977) 35 pp., 1 fig.  
Key to 20 spp.
- & F. EHRENDORFER, *Chionohebe, a new name for Pygmaea Hook.f. (Scroph.)*. Contr. Herb. Austr. no 25 (1976) 4 pp., 1 tab.  
Generic descr. (in tab.); 5 new comb. Pygmaea Hook.f. is a homonym.
- BROOKER, M.I.H. *Eucalyptus cyanophylla, a new species from South Australia and Victoria (Myrt.)* Trans. R. Soc. S. Austr. 101 (1977) 15-18, 3 fig.
- BROOKS, R.R. e.a. *Detection of nickeliferous rocks by analysis of herbarium specimens of indicator plants*. J. Geochemical Explor. 7 (1977) 49-57.  
Of Homalium (Flac.) 128 spp. were analyzed from warm regions, of Hybanthus (Viol.) 104 spp. Results are roughly tabulated; most ultrabasic areas are in Cuba, Puerto Rico, the Philippines, western Australia, and New Caledonia. New nickel species were found. Some promise for copper. See also p. 2791-2792.—M.J.

----- & E.D.WITHER, Nickel accumulation by *Rinorea bengalensis* (Wall.) O.K. J.Geochemical Explor. 7 (1977) 295-300, 2 fig.

Violaceae, wide-spread in Malesia (map given). Most major ultrabasic regions (one new in West New Guinea) were identified by Ni in minute samples of the dried collections.—M.J.

\*BRÜCHER,H. *Tropische Nutzpflanzen / Ursprung, Evolution und Domestikation* (1977) — Reviewed on page 3051.

BRUNIG,E.F. *The tropical rain forest - A wasted asset or an essential biospheric resource?* Ambio 6 (1977) 187-191, 4 fig.

Many figures, for instance: interception of rainfall by canopy to 42%; logging depletes nutrient stock to an extent that it may take 200-400 years to rebuild it. Conversion of forest into rubber or oil palm plantations doubled peak flows, halved low flows, trebled erosion. At present destruction rate of 300,000 sq.km a year, all forest on accessible land will be gone by year 2000. Oxygen content in air will be down by 0.3% of total, CO<sub>2</sub> content will eventually increase to 10-15 % of its present level. Deforested, the earth will cool 0.2°C, rainfall will be nearly 1% less.—M.J.

----- & H.KLINGE, *Comparison of the phytomass structure of equatorial 'rain-forest' in central Amazonas, Brazil, and in Sarawak, Borneo.* Gard.Bull.Sing. 29 (1977) 81-101, 15 fig.

Two authors, each well acquainted with one area, compare figures on stratification, number of individuals, bole diameters, phytomass, species/area. Klinge's emphasis in Amazonia was on structure, Brunig's in Borneo on diversity. For most criteria, small plots seem to suffice.—M.J.

\*BURGESS,P.F. *Silviculture in the hill forests of the Malay Peninsula.* FRI Res.Pamphl. no 66 (1975) 100 pp., 8 fig., many tab.

Climate map with 'dry pockets'; telescoping forest formation types on isolated peaks. Mostly on 'seraya', Shorea curtisii and Eugeissonia; important ecological study. Viability of seed. Role of bamboos!

BURKART,A. *A monograph of the genus Prosopis (Leguminosae subfam. Mimosoideae).* Catalogue of the recognized species. J.Arn.Ar. 57 (1976) 450-525, 12 fig.

44 spp. enumerated with their synonyms. P. spicigera L. must be called P. cineraria (L.) Druce, P. juliflora (Sw.) DC. naturalized in the Philippines and Ceylon; P.

- insularum (Guill.) Breteler from New Guinea and Melanesia excluded and referred to *Schleinitzia insularum* (Guill.) Burkart, comb.nov.
- BURTT, B.L. *The nomenclature of turmeric and other Ceylon Zingiberaceae*. Notes R.Bot.Gard.Edinb. 35 (1977) 209-215. Preliminary to revision of Ceylon spp.; 1 n.sp. of *Alpinia*.
- *Studies in the Gesneriaceae of the Old World. XLI. Notes on Boeica and Didissandra*. Notes R.Bot.Gard.Edinb. 35 (1977) 369-374, 1 fig. 1 n.sp. from Hongkong, 1 new comb. from Tonkin in Boeica; 1 new Didissandra from W. Borneo and *D. rufa* emended.
- *Notes on rain-forest herbs*. Gard.Bull.Sing. 29 (1977) 73-80. Observations were made in Sarawak. Differences between monocots and dicots are undiminished in the rain forest; scale-bearing rhizomes are common in the former (as are leaf sheaths), rare in the latter but there under seasonal conditions are more prominent. In the rain forest rhizomes serve propagation rather than perennation. Dicots often grow in patches from branching decumbent stems. Death patterns and duration of plant parts should be studied. Cliff hangers often have tufts of leaves, or an erect fan of leaves. Dicot forest herbs mostly have small seeds, lightly dispersed, safe from predators. Seedlings of Begonia and other such herbs are rare, however. Sustained growth of a cotyledon or association with fungi gives small-seeded plants an advantageous start. Physiological speculations are risky. Transpiration rate is low, CO<sub>2</sub> % relatively high. Typical is a water-storing hypodermis or epidermis (to meet sunflecks?). Conducting tissue is not well developed. On leaf colour, blotches and iridescence much is to be learnt.—M.J.
- *Curcuma zedoaria* (Zing.) Gard.Bull.Sing. 30 (1977) 59-62, 1 pl. Full synonymy; in history often confused.
- BYRNES, N.B. *The genus Verticordia in Northern Australia* (Myrt.) Austrobaileya 1 (1977) 47-48. 2 n.spp.
- CANNE, J.M. *A revision of the genus Galinsoga (Compositae: Heliantheae)*. Rhodora 79 (1977) 319-389, 18 fig., 2 tab. Key to 14 spp.; subdivision genus.
- \*CARLQUIST, S. *Island Biology* (1974) — Reviewed on page 3052.

- & D.R.BISSING, *Leaf anatomy of Hawaiian Geraniums in relation to ecology and taxonomy*. *Biotropica* 8 (1976) 248-259, 9 fig., 1 tab.  
Anatomy; census of 4 spp. with subspp.; no key.
- CARRICK, J. *Studies in Australian Lamiaceae. I. The genus Wrixonia F.Muell. (Prostantheroideae)*. *J.Adelaide Bot. Gard.* 1 (1976) 27-34, 4 fig.  
Key to genera of tribe; revision of Wrixonia; 2 spp.
- CAVANAGH, A. *Proteaceae for gardens*. *Austr.Plants* 8, no 67 (1976) 291-313, 2 col.photogr.  
On Hakea spp.
- CHAMBERLAIN, D.F. *Catalogue of the names published by Hector Léveillé. X. Notes R.Bot.Gard.Edinb.* 35 (1977) 247-264.  
Incl. also many plants from Hawaii; mostly China and Indochina; contains Stylid., Camp., Good., Eric., and Clethr. See also under Lauener.
- CHAPMAN, A.D. *Name changes in Kunzea (Myrtac.)*. *Contr.Herb. Austr.* no 18 (1976) 2 pp.  
Synonymy of 2 spp.
- CHIN, S.C. *The limestone hill flora of Malaya. I. Gard.Bull. Sing.* 30 (1977) 165-219, 3 maps.  
Introd. chapter; complete list of 1216 spp.; key and list of pteridophytes and gymnosperms.
- CHIPPENDALE, G.M. *Eucalyptus nomenclature (Myrt.)* *Austr.For. Res.* 7 (1976) 69-107.  
Alphabetical list of names and their status.
- CHOMCHALOW, N. & S.PONGPANGAN, *Aquatic weeds in Thailand: occurrence, problems, and existing and proposed control measures*. In Varshney & Rzóska (ed.), *Aquatic Weeds SE. Asia* (1976) 43-50.
- CHRISTENSEN, B. & S.WIUM-ANDERSEN, *Seasonal growth of mangrove trees in southern Thailand. I. The phenology of Rhizophora apiculata Bl.* *Aquatic Botany* 3 (1977) 281-286, 2 fig.  
Phenology on Phuket I.; leaves live 18 months; from bud-primordia to mature seeds 3 years!
- CLANCY, B. *Inventory of Malesian Rhododendrons in Australia (Eric.)* *The Rhododendron* 15 (1976) 11-12.  
Of the 291 spp. of New Guinea now 81 are in cultivation. Brief descr. of some.
- CLARK, R. *Orchids of the Gippsland Coast (Victoria)*. *Vict.Nat.* 94, no 1 (1977) 20-25, 4 fig.  
Popular.

- CLEMENS, J., P.G.JONES & H.N.GILBERT, *Effect of seed treatments on germination in Acacia* (Legum.) Austr.J.Bot. 25 (1977) 269-276, 2 fig.  
Chipping and water treatment.
- COCKS, P.S., K.G.BOYCE & P.M.KLOOT, *The Hordeum murinum complex in Australia* (Gram.) Austr.J.Bot. 24 (1976) 651-662, 4 fig., 1 tab.
- COMBER, J.B. & R.E.NASUTION, *Cymbidium hartinahianum spec.nov.* (Orch.) Bul.Kebun Raya 3 (1977) 1-3, 1 fig.
- CORNER, E.J.H. *Moraceae. Revised Handb.Fl.Ceylon 1 (2)* (1977) 111-165, 32 fig.  
No new names.
- \*----- *The freshwater swamp-forest of South Johore and Singapore* (1978) — Reviewed on page 3053.
- CORRICK, M.G. *Bush-peas of Victoria - genus Pultenaea No. 2.* (Legum.) Vict.Nat. 93 (1976) 250-252, 1 fig.  
2 spp. treated.
- *Ditto No. 3-7.* Vict.Nat. 94 (1977) 26-28, 68-70, 112-114, 148-151, 198-200, illus.  
Altogether 9 spp. discussed.
- CRISTÓBAL, C.L. *Estudio taxonomico del genero Byttneria Loefl.* (Stern.). Bonplandia 4 (1976) 1-428, 100 fig.  
Descr. and key to 79 American spp. (27 new); identification list; key to sections (4 new); generic map; Indo-Asiatic spp. (spp. 71-89) of sect. Vanihara are merely enumerated; similarly spp. 90-116 from Madagascar; and spp. 117-119 from Africa. General chapters on chromosomes, seedlings, morphology, etc. Floral details of Asiatic spp. are depicted.
- CROUTHER, K.W. *Pteroceras spathulatus* (R.S.Rog.) Garay in *South Queensland* (Orch.) The Orchadian 5 (1977) 104 & 106.
- DAHLGREN, R. *Ett angiospermschema och dess användning vid kartering av egenskaper.* Svensk Bot.Tidskr. 71 (1977) 33-64, 14 fig.  
Genealogical tree of Angiosperms (in Swedish).
- DANIMIHARDJA, S. & O.ROSJIDIN, *Araucaria spp., penghasil getah resin* (Conif.) Bul.Kebun Raya 3 (1977) 47-52, 5 fig.  
General; obviously mostly from literature.
- DARWIN, S.P. *The genus Lindenia* (Rub.) J.Arnb.Arnb. 57 (1976) 426-449, 32 fig., map.  
3 spp., 1 in Central America, 1 in Fiji, 1 in New Caledonia; 2 names excluded.

----- *The Pacific species of Ophiorrhiza L. (Rub.) Lyonia 1*  
 (2) (1976) 47-102, 11 fig.  
 Key; descr. 15 spp. (4 new).

DAS, A.R. *Authors' catalogue of the botanical articles published in the Journal of the Bombay Natural History Society (vol. 1-66, 1886-1969). J.Bomb.Nat.Hist.Soc.* 73 (1976) 98-120.

Bibliography by authors.

DAWSON, J.W. *The Australian species of Seseli L. transferred to Gingidia Dawson (Umbelliferae). Contr.Herb.Austr.* no 23 (1976) 2 pp.

2 new comb.; generic differences tabulated.

----- *Pacific capsular Myrtaceae. 12. Tristania (New Caledonia). Blumea* 23 (1977) 337-340, 23 fig.  
 Detailed morphology, anatomy, descriptions.

DEB, D.B. *A study on the aquatic vascular plants of India. Bull.Bot.Soc.Beng.* 29 (1975) 155-170, 2 fig., 6 tab.  
 Listed records.

DeBUHR, L.E. *Sectional reclassification of Drosera subgenus Ergaleium (Droseraceae). Austr.J.Bot.* 25 (1977) 209-218, 2 fig., 1 tab.  
 Key to 3 sections.

DEGENER, O. & I. DEGENER, *Hibiscadelphus number KK-HX-1. An international treasure in Hawai'i (Malv.). Phytologia* 35 (1977) 385-396, 6 pl.  
 Pollination and preservation.

----- & ----- *Some taxa of red-flowered Hibiscus endemic to the Hawaiian Islands (Malv.). Phytologia* 35 (1977) 459-470, 3 pl.  
 Discussion of various spp.; one n.sp.

DENNIS, G.F.C. *Orchids of the Solomon Islands. The Orchadian* 5 (1976) 87-88.  
 Various observations, also on ecology.

DEORI, N.C. & C.L. MALHOTRA, *Cleisostoma paniculatum (Ker-Gawl.) Garay (Orchid.) - A new record for India. Bull.Bot. Surv. India* 15 (publ. 1976) 274, 1 fig.

DESHPANDE, U.R. & N.P. SINGH, *Lepturus radicans (Steud.) A. Camus - A new record for India (Gram.). Curr.Sci.* 45 (1976) 873.  
 Different from *L. repens*.

\* DESMOND, R. *Dictionary of British and Irish botanists and horticulturists / including plant collectors and botanical artists* (1977) — Reviewed on page 3057.

- \*DOBREMEZ,J.-F. *Le Népal. Ecologie et Biogéographie.* Cahiers Népalais: Centre Nat. Recherche Sci. Paris (1976) 356 pp., 193 fig., maps & graph., 49 phot., 26 tab. Vegetation.
- DODD,J. *The problem of naming orchids - A new name for Dendrobium ophioglossum Rchb.f.* The Orchadian 5 (1977) 112-113, 1 fig.
- DONEY,J. *Calytrix* (Myrt.) Austr. Plants 9, no 70 (1977) 55-57, 4 col.photogr. Popular.
- DRANSFIELD,J. *A dwarf Livistona (Palmae) from Borneo.* Kew Bull. 31 (1977) 759-762, 2 fig. 1 n.sp. from Brunei.
- *Calamus caesius and Calamus trachycoleus compared* (Palm.) Gard.Bull.Sing. 30 (1977) 75-78, 2 fig. C. trachycleus is a stoloniferous sp.; a unique feature.
- & S.SOENARKO, *Some Indonesian Palm recipes.* Principes 21 (1977) 19-22. Milk, sugar, flavourings, palm hearts, vegetables, puddings.
- \*DRIESSEN,P.M. & P.SUDEWO, *Crops and crop performance on Southeast Asian lowland peats,* 94 pp. (1977) Soil Institute, Jl. Juanda 98, Bogor, Indonesia. Offset; price unknown. To be used together with *Peat and Podzolic Soils*, also in this Bibliography. It is an intelligent, concise, well-worded compilation dealing with 107 crops: cereal, root and tuber, oil, fibre, latex, fruit and nuts, vegetable, stimulants, spices and flavours, dyes and tans, and a few others. Method of cultivation and problems are briefly indicated. Native trees do well, of course; as for the other crops, almost none goes without a complex fertilization recipe, which may set heavy constraints on the future.—M.J.
- DUTTA,N.M. *A revision of the genus Limnophila R.Br. of Eastern India (Scroph.)* Bull.Bot.Soc.Beng. 29 (1975) 1-7. Key to 11 spp.
- ECKER,E.J. *Trilliaceae. Ruscaceae.* Fl.West Pakistan no 105-106 (Dec. 1976) 5 pp., 1 fig.
- EKANAYAKE,D.T. *Some wild Orchid species of Sri Lanka (Ceylon).* Proc.8th World Orchid Conf.Palmengarten Frankfurt, April 1975 (1976) 205-211, map. General; list of 66 generic names and number of spp. in each.

ESSIG, F.B. *Ptychosperma in cultivation* (Palm.) *Principes* 21 (1977) 3-11, 7 fig.

Key to 12 spp., each with notes.

EVERIST, S.L., R.M. MOORE & J. STRANG, *Galvanized burr (Bassia birchii) in Australia* (Chenop.) *Proc.R.Soc.Qd.* 87 (1976) 87-94, 3 fig.

Ecology.

FADEN, R.B. *The identity of Commelina japonica Thunb.* *Taxon* 26 (1977) 142-144, 1 pl.

= *Murdannia japonica* (Thunb.) Faden, comb. nov., with complete synonymy.

FAHN, A. & D.M. JOEL, *Development of primary secretary ducts in the stem of Mangifera indica L. (Anacardiaceae).* *Gard. Bull. Sing.* 29 (1977) 161-164, 5 phot.

From saplings in a Jerusalem greenhouse, primary shoot ducts were under electron microscope found to develop lysigenously.—M.J.

FEDOROV, A. *On speciation in the humid tropics: some new data.* *Gard. Bull. Sing.* 29 (1977) 127-136.

Herbarium collections do not reflect as much variability as they should. Vavilov's law of homologous variations is particularly manifest in Dipterocarpaceae. For 12 Indo-Malesian genera, characters are tabulated in 31 entities, which are unnamed, however.—M.J.

FERGUSON, I.K., B. VERDCOURT & M.M. POOLE, *Pollen morphology in the genera Merremia and Operculina (Conv.) and its taxonomic significance.* *Kew Bull.* 31 (1977) 763-773, 4 pl., 1 tab.

55 spp. examined; 5 types; no close correlation with infrageneric subdivisions.

FOSBERG, F.R. *Distributional extensions of marine Spermatophytes.* *Micronesica* 12 (1976) 317-318.

Records of sea-grasses in SW. Pacific (Samoa, New Hebrides, Gilbert Is.).

----- *Miscellaneous notes on the flora of Aldabra and neighbouring islands: V. Pandanus tectorius Parkinson sensu latissimo (Pand.)* *Kew Bull.* 31 (1977) 837-840.

Synonymy.

-----, P. BOITEAU & M.-H. SACHET, *Nomenclature of the Ochrosiae (Apocynaceae): 2. Synonymy of Ochrosia Juss. and Neisosperma Raf.* *Adansonia* 17/1 (1977) 23-33.

Many new comb. under Neisosperma.

-----, M.V.C. FALANRUW & M.-H. SACHET, *Additional records of vascular plants from the Northern Mariana Islands.* *Micronesica* 13 (1977) 27-31.

- & M.-H. SACHET, *Nomenclature of the Ochrosiinae (Apocynaceae): 1. Application of the names Neisosperma Raf. and Calpicarpum G. Don.* Adansonia 17/1 (1977) 19-22.
- & ----- *Flora of Micronesia. 3. Convolvulaceae.* Smithson. Contr. Bot. no 36 (1977) 1-34, 1 map. Key to genera and spp.; new name for a variety.
- FOX, J.E.D. *Constraints on the natural regeneration of tropical moist forest.* For. Ecol. Manag. 1 (1976) 37-65, 4 phot. A critical assessment of economic, physical, biotic, and practical factors. The limits to long-term satisfactory exploitation are considerable. Commercial production of non-gregarious species may be possible only on poly-cultures (due to auto-toxicity). The complexity of rain forest hinders understanding and protection, making exploitation more risky. Acceptance of what grows deserves much greater emphasis. References + 84, world-wide, with emphasis on N. Borneo. Interesting paper!—M.J.
- FRODIN, D.G. *Studies in Cryptocarya (Lauraceae). I. Telopea* 1 (1976) 217-224. Key to 4 spp.
- *On the style of Floras: some general considerations.* Gard. Bull. Sing. 29 (1977) 239-250. Historical: Bentham's Outline's of 1861 influenced Miquel's Flora Indiae Batavae of 1855-9; manual-keys vs. concisely descriptive Floras; semi-monographs; check-lists. Fashionability of large-scale floristic projects, and dangers. Present time: comprehensive works vs. tools for identification. Future: some thoughts, sample "Keys should be simple and practical".—M.J.
- GALIL, J. *Fig biology.* Endeavour n.s. 1 (1977) 52-56, 11 fig. Detailed account of pollination.
- e.a. *On the origin of the sycomore fig (Ficus sycomorus L.) in the Middle East.* Gard. Bull. Sing. 29 (1977) 191-205, 4 fig., 1 pl. Origin in Sudanian savannas; associated with fruit bat now extinct in the N. part of the area where pollination is done by hand, after wild forms of the fig were supplanted by cultivars, because of land scarcity. Pollinating wasps disappeared, too, when cultivars lost compatibility with them. Maps are given.—M.J.
- GANGADHARA, M. & J.A. INAMDAR, *Trichomes and stomata, and their taxonomic significance in the Urticales.* Plant Syst. Evol. 127 (1977) 121-137, 6 fig., 2 tab.

GANZINGER,D. & M.HESSE, A chemotaxonomic study of the subfamily Plumerioideae of the Apocynaceae. *Lloydia* 39 (1976) 349, 5 schemes, 7 tab.

GARAY,L.A. Systematics of the Physurinae (Orchidaceae) in the New World. *Brades* 2, no 28 (1977) 191-204, 4 fig. American Erythrodes split up into a number of new genera; many new comb.

GARDNER,R.C. Evolution and adaptive radiation in *Lipochaeta* (Comp.) of the Hawaiian Islands. *Syst.Bot.* 1 (1976) 383-391, 4 fig., 2 tab. 25 spp.; many polyploids; also many allopatric through isolation on separate islands.

\*GEESINK,R. A provisional key to the genera and some species of the SE. Asiatic Leguminosae-Faboideae (Papilionaceae). *Fl.Males.Misc.Rec.* IV (1976) 1-27, mimeogr. A worthy successor of keys by Baker (1876), Prain, and Merrill (1910), incorporating also genera from Indo-China, serving the area from India to New Guinea; both for flowering and for fruiting material, with abundant use of vegetative characters to be useful for practical purposes.

\*GENAUST,H. Etymologisches Wörterbuch der botanischen Pflazennamen. Birkhäuser Verlag, Basel/Stuttgart (1976) 390 pp. A useful dictionary of scientific plant names (genera and epithets). Curiously the author is apparently not aware of Backer's master work on this subject.

GHAZANFAR,S. Smilacaceae. *Fl.West Pakistan* no 107 (Jan. 1977) 5 pp., 1 fig.

GOLDBLATT,P. & P.K.ENDRESS, Cytology and evolution in Hamamelidaceae. *J.Arnb.Arzb.* 58 (1977) 67-71, 1 tab. Chromosomes of Altingia, Rhodoleia, and many other spp. Comparison with other families.

GOULDING,J.H. Notes on the Cheeseman Herbarium. Part 3. Exchange with Australian herbaria from before 1900 to 1923. *Rec.Auckl.Inst.Mus.* 13 (1976) 101-108, 11 fig.

GOVINDARAJALU,E. & S.THANYAKUMAR, The vegetative anatomy of *Freycinetia sumatrana* Hemsl. and *F. rigidifolia* Hemsl. along with the comparative study of shoot apex organization in *F. rigidifolia* and *Pandanus tectorius* Soland. (Pand.) *Adansonia* 17/1 (1977) 59-76, 5 pl.

GRAY,A.M. A note on the relationship of *Eucalyptus risdonii* Hook.f. var. *elata* Benth. to *Eucalyptus delegatensis* R.T.Baker (Myrt.) *Muelleria* 3 (1976) 197-198.

- *Miscellaneous notes on Australian plants. 3. Craspedia, Gnaphalium, Epacris, Tasmania, Colobanthus and Deyeuxia* (Comp.) *Contr.Herb.Austr.* no 26 (1976) 11 pp., 2 fig.  
Gnaphalium n.sp. Several n.spp., 2 new comb.
- GREGORY,T. *Orchids of the Manning River area (Queensland)*.  
*The Orchadian* 5 (1977) 97-104, pl.  
Records, no descr.
- GRUEZO,W.S. *Javanese Bombacaceae: morpho-anatomy of bark*.  
*Kalikasan* 5 (1976) 357-374, 7 fig.
- HAEGI,L. *Taxonomic account of Lycium (Solanaceae) in Australia*. *Austr.J.Bot.* 24 (1976) 669-679, 3 fig.  
Key to 4 spp.
- HAIR,J.B., P.H.RAVEN & S.R.SEAVEY, *Cytological affinities of the Australasian species of Epilobium (Onagr.).* *New Zeal.J.Bot.* 15 (1977) 1-4, 3 fig.  
All spp. have  $\beta\beta$  chromosome complex of Old World; 47 experimental hybrids. All spp. have resulted from a single introduction from Asia during the past several million years.
- HALLÉ,F. & D.J.MABBERLEY, *Corner's architectural model*. *Gard. Bull.Sing.* 29 (1977) 175-181, 1 phot.  
Papaya and oil palm tree are examples of this growth model in the Hallé-Oldeman system. Over 100 spp. are now known, with more expected. List given. From Malesia they occur in Anacardiaceae: Semecarpus, plate given, Cycadaceae: Cycas, Euphorbiaceae: Agrostistachys, Gesneriaceae: Boea, Lecythidaceae: Barringtonia, Mimosaceae: Pithecellobium, Meliaceae: Aglaia, Chisocheton, Dysoxylum (junior author studied just this family), Moraceae: Ficus theophrastoides, Myrsinaceae: Tapeinosperma (see also Blumea 23: 3), Ochnaceae (not Violaceae): Neckia (see Fl.Males. i 7: 110), Palmae: Cocos, Pandanaceae: Pandanus danckelmannianus, Sapindaceae: Jagera, Simaroubaceae: Eurycoma.—M.J.
- \*----- , R.A.A.OLDEMAN & P.B.TOMLINSON, *Tropical trees and forests / An architectural analysis* (1978) — Reviewed on page 3058.
- HAM,R.W.J.M.VAN DER, *Notes on Arytera (Sapind.)*. *Blumea* 23 (1977) 289-300, 1 fig., 2 pl., 1 tab.  
Provisional notes; 2 spp. transferred to other genera with 2 new comb.; morphology; pollen types.
- *Pollenmorphology of the genus Mischoocarpus (Sapind.)*. *Blumea* 23 (1977) 301-335, 2 fig., 16 pl., 3 tab.

----- *A revision of Mischocarpus (Sapindaceae).* Blumea 23 (1977) 251-288, 5 fig.

The genus *Mischocodon* Radlk. is included; *M. reticulatus* accordingly is a new comb. Under *M. pyrifolius* two subspp. have a new status. Recognized are 11 spp. and 1 from New Guinea doubtfully new. The distribution, from Burma through Malesia to SE. Australia (map given) coincides with zoogeography. Five groups are discerned but not named. Characters are briefly discussed; the fruits are figured, the arillode analyzed. Many reductions have been made, with types listed and named indexed; keys and descriptions are given, many specimens listed by area but not indexed. The plants are low trees in forest, up to 3000 m. *Vateria flexuosa* is discussed; it was attributed to Dipterocarpaceae but its fruits belong here.—M.J.

HAMA, E. & C. NACKEJIMA, *Notes on the violets of Japan.* J. Jap. Bot. 51 (1976) 339-344, 2 fig.

HAMZAH, Z. *Ecological survey of Sandal wood on Bali.* Lembaga Penelitian Hutan Bogor, Laporan no 241 (1976) 12 pp. mimeogr., 2 phot.

In Indonesian, English summary. Experimental plantings from Timor seed; diseases troublesome. *Santalum album*.

HANSEN, C. *The Asiatic species of Osbeckia (Melast.).* Ginkgoana 4 (1977) 150 pp., 20 pl., 44 fig. (partly maps). Monograph: keys, descr. (of each of the 28 spp. also a distr. map), ident. list, some new varieties; 2 spp. transferred to *Otanthera*. In Malesia occur 3 spp. (one endemic), and 1 just on the border of Malaya.

HARA, H. *Proposal to change the citation of the type species of 7810 *Didymocarpus* Wall. (Gesn.).* Taxon 26 (1977) 146.

Proposed type *D. primulifolius* D. Don (1825).

----- *New or noteworthy flowering plants from Eastern Himalaya (19).* J. Jap. Bot. 52 (1977) 193-199, 2 fig.

Critical notes; 2 n.spp. in *Caryoph.*; new comb. in *Rottala*; n.sp. of *Mycetia* (Rub.).

HARAHAP, R.M.S. & A. MUKTI, *Preliminary results on strobili observation and control pollination of *Pinus merkusii*.* Lembaga Penelitian Hutan Bogor, Laporan no 237 (1976) 17 pp. mimeogr., fig., tab.

In Indonesian.

HARTLEY, T.G. *A revision of the genus *Acradenia* (Rutaceae).* J. Arn. Arb. 58 (1977) 171-181, 2 fig., 1 map. 2 spp., 1 new comb.; *Luerssenidendron* Domin reduced.

----- & L.A.CRAVEN, *A revision of the Papuasian species of Acmena (Myrtaceae)*. J.Arн.Arб. 58 (1977) 325-342, 2 fig.

Key to 7 spp.; 3 n.spp.; 1 new comb.

HASSALL,D.C. *Numerical and cytotaxonomic evidence for generic delimitation in Australian Euphorbieae*. Austr.J.Bot. 24 (1976) 633-640, 2 fig., 1 tab.

*Chamaesyce* considered generically distinct from *Euphorbia*.

\*HAUSHERR,K. *Die Entwicklung der Kulturlandschaft in den Lanao-Provinzen auf Mindanao ... Thesis*, Bonn (1972) 316 pp. offset, 30 fig., 73 phot., 3 maps. Address author: Südasienninstitut, Box 103066, Heidelberg, Germany. Detailed versatile study on the development of the landscape in the bottleneck of Mindanao, at 700 m altitude, in view of the differences between Muslims and Christians, who are ethnically the same. Little botany, but informative on the complexity of issues in 'ecodevelopment'. English summary on p. 289-296.—M.J.

----- *Traditioneller Brandrodungsfeldbau (Chena) und moderne Erschliessungsprojekte in der "Trockenzone" im Südosten Ceylons. Versuche der Wiederherstellung alten Kulturlandes um Buttala, Monaragala Distrikt*. Geogr.Zeitschr. Beih.: Landschaftsökologische Forschungen auf Ceylon (197?) 169-204, 4 Abb., 4 Bildern.

Detailed account, by a geographer, of the effects of long-time mismanagement in the fire-prone SE. part of Ceylon. Some plant species named. English summary on p. 202.—M.J.

HENDERSON,D.M. & H.T.PRENTICE (ed.), *International Directory of Botanical Gardens. II*. Regn.Veget. 95 (1977) 270 pp. A most welcome 3rd edition; of each garden particulars and details, and also staff is mentioned.

HENDERSON,R.J.F. *Typification of Dianella Juss. 1789 (Liliac.)* Taxon 26 (1977) 131.

*Dracaena ensifolia* L. and *Dianella nemorosa* Lamk nom. illeg. are lectotypified. *Dianella ensata* (Thunb.) R.J.F. Henderson is the correct name for the type species, which is widely distributed in Malesia.

----- *Notes on Solanum (Solanaceae) in Australia*. Austro-baileya 1 (1977) 13-22, 1 fig.

*S. callium* C.T.White & Hend., n.sp. from Queensland, allied to *S. superficiens* from Java and others from Central America; typification or notes on *S. villosum* Mill., *S. gracile* Dunal, *S. americanum* Mill.

HENRY, A.N. & K.SUBRAMANYAM, *A new Marsdenia R.Br. from South India (Asclepiadaceae).* J.Bomb.Nat.Hist.Soc. 73 (1976) 186-187, 5 fig.

HERBST,D. *Vegetation. In: The Natural History of Nihoa Island, NW. Hawaiian Islands. Atoll Res.Bull.* 207 (1977) 26-38, photogr.

Introduction and name list; 4 spp. and 1 var. endemic to the island.

HEYWOOD,V.H. *The taxonomist's dilemma.* Gard.Bull.Sing. 29 (1977) 233-237.

Conservation needs call for their services. Choice between slow pure and quick applied work. Many species may die unknown. Taxonomists should speak up.—M.J.

HILU,K.W. & J.M.J.DE WET, *Racial evolution in Eleusine coracana ssp. coracana (Finger Millet) (Gram.)* Amer.J.Bot. 63 (1976) 1311-1318, 9 fig., 3 tab.

HLADIK,A. & C.M.HLADIK, *Signification écologique des teneurs en alcaloïdes des végétaux de la forêt dense: résultats des tests préliminaires effectués au Gabon.* La Terre et la Vie 31 (1977) 515-555, 3 fig., 5 tab.

From the English summary on p. 551-553: leaves of 382 rain forest species in tropical Africa were checked for chemical defenses against animals. In the A-storey 12% was positive, in the B and C ones 17%. In lianas and shrubs 21% is positive, in large trees 7%.

HLADIK,C.M. & A.HLADIK, *Disponibilités alimentaires et domaines vitaux des primates à Ceylan.* La Terre et la Vie no 2 (1972) 149-215, 16 fig., 4 tab.

In 54½ hectares of rain forest without undergrowth at Polannaruwa, all woody species were mapped; 2 Presbytis and 1 Macaca monkey fed on 56 spp.; parts, quantities, and phenology analyzed. English summary on p. 212-213.

—M.J.

HO,TING-NUNG & WEN-LIANG SHIH, *Qing Xie Dan and Dau Da - Chinese medicinal herbs for treating hepatitis.* Acta Phytotax.Sin. 14 (1976) 63-65, 1 fig.

*Swertia mileensis T.N.Ho & W.L.Shih, n.sp.* A key to a number of Gentianaceae; n.comb. in Swertia and Anagallidium by Ma. In Chinese.

HODEL,D. *Collecting expedition to the South Pacific.* Bull. Pacif.Trop.Bot.Gard. 7, no 1 (1977) 7-13, 4 phot. Botanical travel report in New Caledonia.

----- *Ditto. II. New Caledonia, New Hebrides, Solomon Islands & Papua New Guinea.* Ibid. 7, no 2 (1977) 25-39, 5 phot. Collecting report, emphasis on palms, tree ferns, etc.

- HOOGLAND, R.D. *Proposal for the conservation of the generic name 5109 Saurauia Willd. (1801) against Saurauja Willd. (1801).* Taxon 26 (1977) 147-148.
- *Saurauiae Gerontogeae. I. Notes on Malayan species.* Gard.Bull.Sing. 30 (1977) 111-122, 4 fig.  
10 spp. listed; no key; 1 new comb., 2 n.spp.
- HOPE, J.H. & G.S.HOPE, *Palaeoenvironments for Man in New Guinea.* In: R.L.Kirk & A.G.Thorne, *The origin of the Australians.* Canberra (1976) 29-54, 4 fig.  
Tracings by means of grassland sites and trade routes, archaeology, pollen; man has been in Papua for 40,000 years. Effect of glaciation in the highlands.
- HORII, Y. *A white flowered form of Pedicularis chamissonis Stev. var. japonica Maxim. (Scroph.)* J.Jap.Bot. 52 (1977) 49.  
From Japan.
- HOWCROFT, N.H.S. *A New Guinea Bulbophyllum (Orch.)* The Orchadian 5 (1976) 70-72, 4 phot.  
*B. graveolens.*
- *Sarcochilus chrysanthus Schltr.* - *A species from the mid montane forest of New Guinea (Orch.)* The Orchadian 5 (1977) 110-111, 1 fig.
- HSU, CHIEN-CHANG, *Taiwan Grasses.* Taiwan Prov.Educ.Assoc. (1975) 884 pp., many balck-and-white text-fig., 48 half-tone & 2 col.pl.  
Each of the 289 spp. also a plate. Text in Chinese and English. Keys to spp.
- HSÜ, YUNG-CHUN & HSIEN-WEI JĒN, *The classification and distribution of Fagaceae of Yunnan Province (2).* Acta Phytotax.Sin. 14 (1976) 73-88.  
Keys to 47 spp. of Lithocarpus, 29 spp. of Cyclobalanopsis and 34 of Quercus, among which 16 n.spp. In Chinese language.
- HSUE, HSIANG-HAO, *Review of the Sterculiaceous plants in China.* Acta Phytotax.Sin. 15 (1977) 72-84, 6 fig.  
Key to genera and species. Several n.spp. in Pterospermum, Firmiana, Reevesia, Sterculia, with brief Latin diagnoses. In Chinese.
- HU, HSEN-HSU, *Notulae ad Floram Silvaticam Sinensem (I).* Acta Phytotax.Sin. 8 (1963) 197-201.  
N.sp. in Horsfieldia (2), Tilia (1), Barringtonia (2), Melliodendron (1).
- HUBBARD, R.J. *The genus Wehlia F.v.Mueller (Myrt.)* Austr.Plants 9, no 70 (1977) 65-67. — Popular.

- HUNT,D.R. *Rhododendron brookeanum* (Eric.) Curtis Bot.Mag. n.s. 181 (1977) tab. 726, 4 pp., 1 fig.  
From Borneo.
- HUYNH,KIM-LANG, *La morphologie microscopique de la feuille et la taxonomie du genre Pandanus* (Pand.) Bot.Jahrb. 98 (1977) 199-249, 29 fig.  
61 spp. examined and described; a few new sections.
- \*JACK,W. *Descriptions of Malayan plants I-III / Bencoolen 1820-1822*, 27 + 79 + iii + 96 pp. Paper. Boerhaave Press, Box 1051, Leiden, Netherlands. Dfl. 90. Facsimile reprint; no introduction.
- JACOBS,M. *What a botanist can contribute to conservation in Malesia*. Fl.Mal.Bull. 30 (1977) 2826-2827.
- *It is the genera of threatened plants that need attention*. Fl.Mal.Bull. 30 (1977) 2828-2830.
- JACQUES-FÉLIX,J. *La graine et l'embryon chez les Memecylon (Mélastomatacées) africains*. Adansonia sér.2, 17/2 (1977) 193-200, 2 pl.  
4 types of embryo, important for taxonomy.
- \*JANZEN,D.H. *Ecology of plants in the tropics* (1975) — Reviewed on page 3064.
- JARRETT,F.M. *The syncarp of Artocarpus - a unique biological phenomenon*. Gard.Bull.Sing. 29 (1977) 35-39, 1 fig.  
The tubular perianths in most species are partially fused. Four types of syncarp are recognized, reflecting the subdivision of the genus, and showing an evolutionary line. On the biological function of each type, much is to be discovered.
- *Artocarpus (Moraceae)*. Ident.List of Males.Specim. no 53 (1977) 953-973.
- JAYASURIYA,A.H.M. *New records of some native and naturalized plant species in Sri Lanka*. Ceyl.J.Sci.(Biol.Sci.) 12, no 1 (1976) 15-22.  
Spp. all well-known.
- JÉRÉMIF,J. *Etude des Monimiaceae: Le genre Kibaropsis*. Adansonia 17/1 (1977) 79-87, 6 pl.  
Formerly under Hedycarya; new monotypic genus from New Caledonia.
- JIEN,ZHUO-PO, *Some new plants of Chinese Parnassia* (Saxifr.) Acta Phytotax.Sin. 8 (1963) 253-258, 2 pl.  
Incl. some n.spp. of Parnassia; no key.
- *Tres species novae generis Chrysosplenii sinenses* (Saxifr.) Acta Phytotax.Sin. 8 (1963) 337-340, 2 pl.

- JOHNS, R.J. *Common forest trees of Papua New Guinea*. Port Moresby, Office of Forests (1975). Illustrated series intended for the Forestry College, Bulolo; since 1975 9 parts issued (of a projected 13).
- JOHNSON, D. *Palm literature: Recent Malaysian studies on the Oil Palm*. Principes 21 (1977) 82-84. Review of main published sources.
- JONES, D.L. *Miscellaneous notes on Australian Orchidaceae*. The Orchadian 5 (1976) 83-86. Reduction of 6 spp. and 5 varieties.
- & R.C.NASH, *A new Corybas species from South Australia* (Orch.) Muelleria 3 (1976) 165-168, 1 fig., 1 tab.
- JOSEPH, J. & V.CHANDRASEKARAN, *Eria muscicola* (Lindl.) Lindl. var. *brevilinguis* - A new variety of orchid from Agastya malai, South India. Bull.Bot.Surv.India 15 (publ. 1976) 267-269, 1 fig.
- JUNK, W.J. *Note on aquatic weeds in some reservoirs in Thailand*. Aquatic Botany 3 (1977) 85-90, 1 fig. Inventory; control measures; ecology.
- KAM, Y.K. *The sequence of flower-opening in two species of Zingiberaceae*. Notes R.Bot.Gard.Edinb. 35 (1977) 221-228, 6 fig. Zingiber spectabile and Scaphochlamys kunstleri, both from the Garden in Penang. In the former, the phyllotaxis is 3 + 5 or 5 + 8; a ring-like zone of open flowers moves to the top. In the latter, too, opening is acropetal, with reference to main axis and to each cinnus. Diagrams are given.—M.J.
- KANIS, A. *A review of the Chenopodiaceae in Papuasia*. Contr. Herb.Austr. no 20 (1976) 6 pp. Key to 4 genera and 6 spp. (of which 2 genera not yet recorded from New Guinea).
- *List of examined collections of Papuasian Amaranthaceae*. Contr.Herb.Austr. no 21 (1976) 4 pp. Identification list.
- *A year as Australian botanical liaison officer at the Royal Botanic Gardens, Kew (U.K.)*. Austr.Syst.Bot.Soc. Newslet. no 11 (June 1977) 4-7. Job and experiences.
- KAPOOR, S.L., P.C.SHARMA, D.P.BADOLA & L.D.KAPOOR, *A botanical trip to Moralkanda (Himachal Pradesh)*. J.Bomb.Nat.Hist. Soc. 73 (publ. 1977) 329-347. Introduction; name list.

KARTAWINATA, KUSWATA, *Biological changes after logging in low-land Dipterocarp forest.* Bul.Kebun Raya 3 (1977) 29-34. Regeneration observations.

- *The forest on Gunung Cadaspang and Gunung Tikukur, West Java.* Bul.Kebun Raya 3 (1977) 35-38, 3 fig. Mountain forest composition near Mt. Patuha (Priangan, W. Java); idea advanced to make a National Park of the complex with adjacent mountain forest, which we hope will succeed.
- *Conditions of mangrove swamps in Jakarta Bay area and adjacent islands* is the English title of a paper in Oseanologi di Indonesia no 7 (1977) 1-23, otherwise in Indonesian. Visited were Marunda, Muara Gembong, Tan-jung Karawang, Muara Angke, P. Pari, P. Bokor, P. Lan-cang, and P. Rambut. Along the Bay, Avicennia is the pioneer, in the islands Rhizophora stylosa or Sonneratia alba. Human activities have deteriorated much of the mangrove along the bay, and a large proportion of the swamps have been transformed into brackish water ponds. In the islands the mangroves were relatively better, especially in P. Rambut, which is a sea bird sanctuary.—M.J.
- & A.APANDI, *Checklist of plant species on the Peucang Island (Ujung Kulon Nature Reserve, West Java).* Berita Biologi 2 (1977) 13-18. Name list (187 spp.) of this island off W. Java, 450 ha.
- & E.B.WALUJO, *A preliminary study of the mangrove forest on Pulau Rambut, Jakarta Bay.* Marine Research in Indonesia no 18 (1977) 119-129, 5 fig., 4 tab. Coral island of c. 56 ha, now a reserve. A transect reveals from outside inward Rhizophora stylosa, R. mucronata, Lumnitzera, Scyphiphora. Profile diagrams and quantitative analysis given.—M.J.

KATAKI, S.K. *Wild orchids in Khasi and Jaintia Hills, Meghalaya, India - Pleione.* Amer.Orch.Soc.Bull. 46 (1977) 445-448, illus.

Key to 3 spp. of Pleione.

KEMP, E.M. & W.K.HARRIS, *The vegetation of Tertiary islands on the Ninetyeast Ridge.* Nature 258 (1975) 303-307, 3 fig. The 90E Ridge runs in the Indian Ocean over 5000 km due south from the Nicobars. Two deepsea drillings were made, halfway at 1665 m and at the southern end at 1253 m. From the bore samples (up to 500 m!) in the lower part pollen was discovered from the Paleocene: conifers, palms, Gunnera, Myrtac., Sapindac., etc., some 30 types, in terrestrial sediments. Token of at least two

islands in the middle of the Indian Ocean. A few possibly from wind-blown pollen but others certainly not. Assemblage looks like Australian-derived. Subsidence must have occurred just before the Eocene.—v.St.

KENG, H. *Ternstroemia corneri* (*Theaceae*). *Gard.Bull.Sing.* 29 (1977) 143-144, 1 phot.

New species from swamp forest in Johore, Malaya. Key to the 4 Malayan species.

KERGUELEN, M. *Notes agrostologiques. II.* *Bull.Soc.Bot.Fr.* 124 (1977) 337-349.

Various nomenclatural matters; reductions; a few new names.

KERR, R. *It's a shame about poor Pauline !* *The Orchadian* 5 (1977) 94.

Discusses some *Dendrobiums* (*D. pauline*, *bigibbum*, *phalaenopsis*).

KHAN, A.M. *Palynology of Tertiary sediments from Papua New Guinea. I. New form genera and species from Upper Tertiary sediments.* *Austr.J.Bot.* 24 (1976) 753-781, 39 fig. Again unfortunately from Upper Miocene and Pliocene. *Klukisporites* is mentioned, but this is a Cretaceous pollen which occurs obviously allochthonous. However, it is proof of Cretaceous fossil-bearing strata. And it is especially the Upper Cretaceous and Old Tertiary fossil flora of New Guinea we are waiting for to be disclosed in connection with the problems connected with Malesian plate tectonics. It is strange that *Juglans-pollenites* is compared with *Juglans*, a holarctic genus, and not with *Engelhardia*.—v.St.

----- *Ditto. II. Gymnosperm pollen from Upper Tertiary sediments.* *Austr.J.Bot.* 24 (1976) 783-791, 8 fig.

Amongst others *Microcachrysidites*, *Ephedra*, *Ginkgocycadophytus*; it remains uncertain that these pollens are Neogene; the greater probability is that they are Cretaceous and allochthonous. See comment above.—v.St.

KLOOT, P.M. *The species of Adonis L. naturalized in Australia (Ranunc.)* *Muelleria* 3 (1976) 200-207, 3 fig.

KOCHUMMEN, K.M. & F.S.P.NG, *Natural plant succession after farming in Kepong.* *Malays.For.* 40 (1977) 61-78, 7 fig., 6 tab.

30 years study; *Melastoma* dominant, replaced by *Gleichenia*; since 1960 woody plants are shading this out.

KOSTERMANS, A.J.G.H. *New species and combinations of Lauraceae from Thailand.* Nat. Hist. Bull. Siam Soc. 25 (1974) 29-44. N.spp. in *Actinodaphne* (2), *Beilschmiedia* (3), *Cinnamomum* (1), *Cryptocarya* (8), *Litsea* (6), *Neolitsea* (3), *Nothaphoebe* (1), *Persea* (2), *Phoebe* (1), *Potameia* (1), and 5 new comb.

----- *Notes on Asiatic, Pacific, and Australian Diospyros (Eben.)* Blumea 23 (1977) 449-474.  
56 spp. listed (39 new, 7 new comb.).

----- *Notes on Asian Lauraceae.* Adansonia 17/1 (1977) 89-93. Several records; new *Alseodaphne* from Burma; *Cinnadenia malaya* n.sp. from Malaya; *Dehaasia assamica* n.sp. from Assam; *Potameia kwangsiensis* n.sp. from China.

----- *Un nouveau Litsea (Lauraceae) de Nouvelle-Calédonie.* Adansonia 17/1 (1977) 95.

----- *Miscellaneous botanical notes.* Ceyl.J.Sci.(Biol.Sci.) 12 (1977) 125-138, 3 pl.

New spp. or comb. from Ceylon in *Bhesa* (fig.), *Garcinia*, *Mastixia*, *Sterculia* (fig.), *Mimusops*, *Ardisia*, and S. India in *Litsea*. From New Guinea there are following items: *Mammea cordata*, description amplified; *Garcinia mammeoides*, n.sp.; *Brachychiton velutinosum*, n.sp. From Queensland: *Heritiera polyandra*, new comb. (*Argyroden-dron polyandra* L.S.Smith, basionym). From Malaya: *Aedenanthera malayana*, n.sp., not *A. bicolor*. From Thailand *Thailentadopsis* (*Mimosaceae*), new genus, monotypic with *T. tenuis*, new comb. (basionym *Pithecellobium tenuis Craib*; *Acacia tenuis Kosterm.*), in Kanchanaburi.—M.J.

----- *Notes on Ceylonese ebony trees (Ebenaceae).* Ceyl.J.Sci. (Biol.Sci.) 12 (1977) 89-108, 1 pl.

All *Diospyros*; 18 spp. discussed, some novelties. Long discussion of *D. ebenum*. *D. ferrea* is confined to Ceylon and S. India; Bakhuizen's concept of the species was too wide, his var. *salomonensis* is elevated to specific rank; the Javanese plants are *D. littorea*. *D. malabarica* is confined to S. India and Ceylon; the plants from Java come under *D. peregrina nova f. javanica*.—M.J.

KOTALAWALA, J. *Noxious water vegetation in Sri Lanka: The extent and impact of existing infestations.* In: Varshney & Rzóska (ed.), Aquatic Weeds SE. Asia (1976) 51-58.

KOYAMA, H. *A note on Cacalia penninervis H.Koyama (Comp.)* Bull.Nat.Sc.Mus.Tokyo ser.B Bot. 3 (1977) 33-36, 1 fig. 2 spp. involved.

- KOYAMA,T. *The Cyperaceae tribe Cypereae of Ceylon.* Gard.Bull. Sing. 30 (1977) 123-164, 10 fig.  
Key to 59 spp. of 4 genera (all segregates of Cyperus); a few stat. or comb. nov.
- KRUKOFF,B.A. *Notes on the species of Erythrina. IX (Legum.)* Phytologia 36 (1977) 1-11.  
List of new records.
- KUMAR,S. & G.S.PALIWAL, *Foliar anatomy of the family Acanthaceae. II. The tribes Thunbergiaeae and Nelsoniaeae.* Acta Bot. Indica 3 (1975) 121-131, 5 fig., 3 tab.  
Both remain in Acanthaceae. In Thunbergia laevis cystoliths occur.
- KUMARI,G.R. & G.V.SUBBA RAO, *A new species of Caralluma from India (Asclep.)* J.Bomb.Nat.Hist.Soc. 73 (1976) 194-196, 1 fig.
- KUNDU,B.C. *Tinospora fosbergii, a new Tinospora from Sri Lanka (Menisp.)* Ceyl.J.Sci.(Biol.Sci.) 12, no 1 (1976) 49-53, 3 pl., 2 fig.
- LACKEY,J.A. *A synopsis of Phaseoleae (Leguminosae-Faboideae), with emphasis on Glycine (soy bean) and relatives* (1977) — Reviewed on page 3066.
- LAUENER,L.A. *Catalogue of the names published by Hector Léveillé. XI. Notes R.Bot.Gard.Edinb.* 35 (1977) 265-279.  
Contains Plumbag., Linac., Primul., Myrsin., Symploc.  
See also under Chamberlain.
- LAVARACK,P.S. *Notes on Queensland Orchidaceae. I. Austrobaileya* 1 (1977) 63-74, pl. 2-6.  
Didymoplexis pallens from Cook Distr.; descr. of n.spp. in Dendrobium, Oberonia; new records of others, Bulbophyllum, Eulophia, some of these formerly known from Malesia, New Guinea or only New Caledonia.
- *Orchids of the Iron Range Area.* Austr.Orch.Rev. (March 1977) 19-25, illus.  
In N. Queensland. Many Malesian genera. Popular account.
- & J.P.STANTON, *Vegetation of the Jardine river catchment and adjacent coastal areas.* Proc.R.Soc.Qd. 88 (1977) 39-48, 2 fig., pl. 10.  
In the very NE of Queensland lies this area of 80 by 50 km, from sea level up to 150 m, with a rainfall of 1620-1980 mm, but a 5-month dry season. The 'large body of light coloured closed forest' spotted from the air by Brass is here for the first time (briefly) described; vegetation map and catena diagram are given. None vegetation types are briefly outlined, rich in Melaleuca;

closed forests occupy 535 sq.km; marked differences are noted with other such areas. Many species are named, but the non-rainforest flora is poor.—M.J.

LAZARIDES, M. *The genus Eragrostiella Bor (Poaceae, Eragrostideae) (Gram.)* Contr.Herb.Austr. no 22 (1976) 7 pp.  
Key to 5 spp. (4 in India) of which one occurs also in E. Africa and NE. Australia.

LEE, D.W. *On iridescent plants.* Gard.Bull.Sing. 30 (1977) 21-29, 4 fig., 2 pl., 1 tab.

Anatomy of leaves; refraction of light caused by specially oriented chloroplasts by lens-shaped cells.

\*-----, B.C.STONE, M.RATNASABAPATHY & KHOO TENG TIANG, *The Natural History of Pulau Tioman.* Merlin Sumadra Tioman Sdn. Bhd. (1977) 69 pp., 2 maps (geogr., geol.), many photogr., partly in colour.  
Enterprise of Univ. Malaya. Introduction by the chief Game Warden. Pulau Tioman lies E of Malaya. Extensive survey of geology; has been land through the Mesozoic and Tertiary, the oldest rocks being all volcanic. Chapters on conservation; fauna, general and lists of vertebrates; freshwater-biology, list of algae; flora, list of ferns; forests, annotated list of seed plants, list of hilltop spp., list of endemic spp. and those not found on the mainland of Malaya; note on 2 Cyatheas from Kinabalu and P. Tioman. The biological and especially the botanical section of this booklet is haphazard, incomplete, uncritical and not adapted to consulting by the general public.—v.St.

LEENHOUTS, P.W. *The nomenclature of Delpya (Sapind.).* Blumea 23 (1977) 336.

*Delpya* Radlk. nom. illeg. reduced to *Sisyrolepis*; 1 new comb.

\*LENGERKE, H.J.VON, *The Nilgiris / Weather and climate of a mountain area in South India.* Steiner Verlag, Wiesbaden, Germany (1977) xviii + 340 pp., 40 fig., 34 maps, 50 phot. + index map. Offset, paper cover.  
The Nilgiris are a 2400 sq.km plateau 1800-2200 m high, with peaks up to 2628 and 2636 m. Data collected and digested are from 400 stations, amplified with field work they reveal an astonishing climatic diversity, described in relation to hydrology, with a view on agriculture. Ample attention is paid to wind and frost, their effect on plants occasionally indicated. Thorough documentation entails the old British data. There is no botany in this work, but it seems fundamental for an understanding of the ecology of the region, and is one

of the rare works on climate in plain comprehensible language, with many interesting explanatory notes. Summary on p. 250-253.—M.J.

LEROY, J.-F. *Les Myoporaceae à Madagascar: niveau d'endémisme.* Adansonia sér. 2, 17/2 (1977) 113-118, 2 fig.

Species referred to Oftia now recognized as a new genus.

LIEW, F.S.P. *Above the clouds on Mt. Kinabalu.* Nature Malaysia- na 2, no 3 (1977) 24-31, 16 col.photogr., 1 map.  
Not botanical.

LIU, TANG-SHUI, *The genus Abies. XII. Anatomy of the leaves.* Quart.J.Taiwan Mus. 29 (1976) 441-496, fig. 22-23, tab. 24, pl. 46-56b.  
Incl. key to anatomical characters.

LO, HSIEN-SHUI, *Two new Munronia Wight from China (Meliac.).* Acta Phytotax.Sin. 15 (1977) 67-68, 1 fig.

MABBERLEY, D.J. *The origin of the afroalpine pachycaul flora and its implications.* Gard.Bull.Sing. 29 (1977) 41-55, 1 fig.

Very thick-stemmed tree-Senecios (7 spp.) and Lobelias (17 spp.). History of discovery. Primitivity was suggested in 1922. Pachycaul ancestors evolved on the one hand into these 'hyperpachycauls', and on the other into herbs of wet habitats. Habit, stem anatomy, and leaf with abscission discussed. References 85.—M.J.

----- *Francis Hamilton's commentaries with particular reference to Meliaceae.* Taxon 26 (1977) 523-540.

Summary: The tangle of nomenclature surrounding Roxburgh's Flora indica is displayed and the date of publication of the first two volumes of the second edition is shown to be in January 1832. Many Roxburgh names were first validly published by others including Buchanan-Hamilton. Hamilton's overlooked and misinterpreted binomials in Meliaceae and other families in his Commentaries on Rumpf and Rheede and in other papers are reconsidered. This necessitates name changes in Chischeton and Dysoxylum, both Meliaceae, and in Artocarpus, Garcinia and Hygrophila. Later publication of Hamilton MS names by Dillwyn necessitates a new name in Canthium while three of the 'new' names are antedated by overlooked ones in Dennstedt's interpretation of Rheede, necessitating new combinations. Many names are shown to have been published earlier than is widely supposed, and completely overlooked, validly published binomials in Anocardium, Antidesma, Asclepias, Canthium, Elaeocarpus, Helicteres, Leucas, Pharnaceum,

Polypodium and Pterocarpus are listed while Jones's monomials are considered invalid. Three Hamilton names, two of them legitimately published in Caltha (= ?Delphinium spp.) are still of uncertain application. An interpretation of Dennstedt's other validly published names based on Rheedea plates is appended, necessitating new combinations. Some six legitimate Dennstedt names, in Asclepias (= ?Tylophora sp.), Aspidium (= ?Dryopteris (s.l.) sp.), Forsythia (= Chionanthus sp.), Limonia (= ?Randia sp.), Pothos (= ?Embelia sp.) and Uvaria (= Polyalthia sp.) are still of uncertain application.

MacDONALD, A.D. *Myricaceae: floral hypothesis for Gale and Comptonia*. Canad.J.Bot. 55 (1977) 2636-2651, 29 fig. Flower structure for affinity; family map lacks Canacomyrica from New Caledonia.

MACONOCHE, J.R. *A new combination in Flemingia W.T.Aiton (Papilionaceae)* (Legum.) Muelleria 3 (1976) 198.

MAEKAWA, F. *Didymiplexiella newly found in Japan (Orch.)* J.Jap. Bot. 52 (1977) 63-64, 2 fig.  
D. siamensis (Rolfe) Seidenf. from Thailand.

MAGUIRE, B., P.S. ASHTON, c.s. *Pakaraimoideae, Dipterocarpaceae of the western hemisphere*. Taxon 26 (1977) 341-385, illus.

With contributions on stem anatomy (De Zeeuw) and phytochemistry (Giannasi & Niklas). Pakaraimaea is an unexpected n.g./n.sp. of the Dipterocarpaceae from the Roraima Mts. in Guyana and Venezuela; third subfam. of Dipt. which are obviously closely allied to Tiliaceae and Sarcolaenaceae (from Madagascar). An unexpected view on Dipterocarpaceae ancestry.—v.St.

MAJUMDAR, N.C. & R.N. BANERJEE, *A note on the citation of a Wallichian specimen*. Bull.Jard.Bot.Nat.Belg. 46 (1976) 415-417.

Collectors listed whose collections were (at least in part) incorporated in the Wallich herbarium.

MAJUMDER, R.B. *Origin, nature and economic aspects of Rajasthan Flora*. Bull.Bot.Soc.Beng. 29 (1975) 135-140.  
General discussion; Mt. Abu, 1722 m, with relict flora.

't MANNETJE, L. *A revision of varieties of Stylosanthes guianensis (Aubl.) Sw. (Legum.-Pap.)* Austr.J.Bot. 25 (1977) 347-362, 9 fig. & maps, 1 tab.

Key to 6 varieties all based on American material; 4 occur introduced in Australia.

MANOKARAN, N. *Germination and early growth rates of the Bertam palm: Eugeissoona tristis Griff.* Malays.For. 39 (1976) 83-90, 6 fig., 2 tab.

- MARKGRAF, F. *Apocynaceae*. Fl. Madagascar fam. 169 (1976) 318 pp., 51 fig.
- *A new species of Gnetum from Papua New Guinea (Gnetaceae)*. Blumea 23 (1977) 344. With insertion in a key.
- *Florae Malesianae Praecursores. LV. Apocynaceae IV. Alyxia*. Blumea 23 (1977) 377-414. Subdivision of Alyxia in 12 series (with key); key to 57 spp. (11 new); several new comb.
- MARSHALL, A.G. & Lord MEDWAY, *A mangrove community in the New Hebrides, south-west Pacific*. Biol.J.Linn.Soc. 8 (1976) 319-336, 3 fig. Vegetation composition.
- \*MARTIN, F.W. & R.M. RUBERTÉ, *Edible leaves of the tropics*. Mayagüez Inst.Trop.Agric.Puerto Rico (1975) 235 pp., 56 fig., 12 tab. Lists in categories (vegetables, condiments, spices, teas, etc.); also poisonous plants indicated; no recipes for preparation.
- MASANO, *Survey hutan Agathis alba (Lam.) Foxw. di Malili, Sulawesi Selatan*. Lembaga Penelitian Hutan Bogor, Laporan no 247 (1977) 31 pp. mimeogr., 3 tab., 4 phot., 3 maps. In Indonesian. Occurrence in Central Celebes (Malili area) in mixed forests with 32 other tree spp. among which 2 Dipterocarps.
- MASLIN, B.R. *Studies in the genus Acacia (Mimosaceae). 6. Miscellany*. Nuytsia 2 (1977) 145-161, 7 fig. & map. 6 n.spp. of Acacia from W. Australia.
- MASLIN, R.M. & D.J.E. WHIBLEY, *The identity of Acacia leophylla Benth. (Mimosaceae)*. Nuytsia 2 (1977) 162-166, 2 fig. Occurs also in S. Australia.
- MAS'UD, R.A. & PUDJIHARTA, *Pengaruh penyebaran hutan terhadap streamflow di Sub DAS Genilangit dan Sub DAS Sepanjang, DAS Bengawan Solo*. Lembaga Penelitian Hutan Bogor, Laporan no 243 (1977) 24 pp. mimeogr. In Indonesian, English summary. Comparison of two comparable streams; forest beneficial against erosion. Experiments in Central Java.
- MATHIAS, M.E. & L.CONSTANCE, *A new species of Oreomyrrhis (Umbelliferae, Apiaceae) from New Guinea*. J.Arн.Arб. 58 (1977) 190-192, 6 fig. New alpine sp. from Mt. Suckling.
- MENNINGER, E.A. *This world we live in will be only as beautiful as you and I make it*. Gard.Bull.Sing. 29 (1977) 251-253, pl.

\*METZNER, J.K. *Man and environment in eastern Timor* (1977) —  
Reviewed on page 3067.

MEYER, F.G. *Sinoradlkofera*: a new genus of Sapindaceae. J.Arnb. Arb. 58 (1977) 182-188, 4 fig., 1 tab.  
Monotypic; from China; 1 new comb.

----- *Pterocarya esquirolii* Lév. (*Jugl.*), a misnomer for  
*Koelreuteria bipinnata* (*Sapind.*). J.Arnb.Arnb. 58 (1977)  
189.  
Reduction.

MEIJER, W. *Manglietia calophylla* Dandy, a successful introduction in the Cibodas Botanical Garden, West Java (Magn.).  
Bul. Kebun Raya Indon. 2 (1976) 129-132, 5 fig.  
From Mt. Kerinci in Central Sumatra, at 2000-2100 m,  
sown in 1956, now in flower.

MILLAR, A. Rudolf Schlechter and the Orchids of Papua New Guinea. Proc. 8th World Orchid Conf. Palmengarten Frankf.  
April 1975 (1976) 212-216.

Account of orchid garden for Pt Moresby University of Papua New Guinea, for which Mrs. Millar made many travels, partly in places where Schlechter had collected 70 years ago.

MITCHELL, A.S. A summary of the family Lythraceae in the Northern Territory (with additional comments on Australian material). J.Adelaide Bot.Gard. 1 (1976) 55-59.  
Key to genera; key to spp.; synonymy; distr.; no descr.

MOLDENKE, H.N. Notes on new and noteworthy plants. XCV. Phytologia 35 (1976) 109-111, 1 fig.  
New var. of *Eriocaulon* from E. Thailand; new var. of *Glossocarya mollis* from Thailand.

----- *Ditto*. XCVI. Phytologia 35 (1977) 216.  
*Clerodendrum serratum*, 2 new varieties from Thailand.  
----- *Ditto*. XCVIII. Phytologia 35 (1977) 419.  
*Premna macrophylla* var. *thailandica* Moldenke, var.nov.  
----- *Ditto*. CII. Phytologia 36 (1977) 437-438.  
New *Glossocarya* variety from Ceylon.  
----- Additional notes on the genus *Avicennia*. XI. Phytologia 36 (1977) 439-450.

MOMIYAMA, Y. On the correct name for a common Japanese species of *Ampelopsis* (Vitac.). J.Jap.Bot. 52 (1977) 29-31.

MONTEIRO NETO, H. *Pichisermollia Monteiro Neto*, um nome novo para *Gigliolia Becc.* (Palm.). Rodriguésia 28, no 41 (1976) 195-198.  
From data in letters of Reichenbach it is concluded

- that the orchid genus *Gigliolia* Rodr. (now reduced to *Octomeria* R.Br.) was published 20 July 1877, antedating *Gigliolia* Becc., a palm genus, published Sept. 1877. The new name *Pichisermollia* is proposed now for the Bornean palm genus, with 2 new combinations.
- MOORE Jr, H.E. *New palms from the Pacific. IV. Principes* 21 (1977) 86-88.  
*Physokentia avia* sp.nov. from Papua.
- *Taveunia and Cyphosperma*. *Principes* 21 (1977) 88.  
*Taveunia tanga* from Fiji reduced to the New Caledonian *Cyphosperma*; 2 new comb.
- MORIARTY, D. *Ethnobotany of Taro*. *Bull. Pacif. Trop. Bot. Gard.* 6 (1976) 81-86, 2 fig.
- MORLEY, B. "Claret ash" *Fraxinus oxycarpa* Bieb. ex Willd. cv. raywood; its origin in South Australia. *J. Adelaide Bot. Gard.* 1 (1976) 35-36.  
Discussion of identity of this cultivar.
- *Plant portraits. I*. *J. Adelaide Bot. Gard.* 1 (1976) 61-67, 3 pl.  
3 orchids from New Guinea described + fig.
- MUIR, T.B. & D. SINKORA, *The correct citation for Typhonium liliifolium* (Arac.) Muelleria 3 (1976) 208.
- MULLER, J. & C. CARATINI, *Pollen of Rhizophora (Rhizophoraceae) as a guide fossil*. *Pollen et Spores* 19 (1977) 361-389, 5 fig., 8 pl.  
Pollen descr., fossil records, history of genus.
- MUNIR, A.A. *A taxonomic revision of the genus Spartothamnella (Chloanthaceae)*. *J. Adelaide Bot. Gard.* 1 (1976) 3-25, 3 maps, 3 fig., 1 tab.  
Revision; 3 spp.; segregate of Verbenaceae.
- MUNSHI, A.H. & G.N. JAVEID, *A new plant record for India*. *Bull. Bot. Surv. India* 15 (publ. 1976) 278-279, 1 fig.  
*Rumex conglomeratus*.
- MURATA, G. *New or interesting plants from Southeast Asia*. *Acta Phytotax. Geobot.* 28 (1977) 26-30, 3 fig.  
On Labiateae from Thailand, Cambodia and China/Japan; 1 n.sp.; some new comb.
- MURTY, Y.S. & K.N. NAUTIYAL, *Soliva anthemifolia* (Juss.) R.Br., a new record from Delhi and western Uttar Pradesh (Comp.). *J. Bomb. Nat. Hist. Soc.* 73 (1976) 239.
- NAIR, N.C. *Identity of Amaranthus polygamus of Hooker's flora of British India and related taxa*. *J. Bomb. Nat. Hist. Soc.* 73 (1976) 59-62. — = *A. roxburghianus* Nevski.

\*----- *Flora of Bashhar Himalayas.* Hissar (1977) 410 pp., 24 pp. with photographs. Bound Dfl. 60.

NAIR, N.G. *Diospyros multibracteata* (Merr.) Bakh. (Ebenaceae) on Car Nicobar island, India. Kalikasan 5 (1976) 325-328, 7 fig.

New record of a Philippine species.

NAITHANI, H.B. & M.B. RAIZADA, New record of some Cyperaceae taxa in India. Indian For. 103 (1977) 411-424.

NASIR, Y. Fagaceae. Fl. West Pakistan no 104 (Nov. 1976) 9 pp., 2 fig.

NASUTION, R.E. *Vanda pumila* Hook.f.: data baru dari Tanah Karo (Orch.) Bul. Kebun Raya 3 (1977) 39-41, 1 fig.

New orchid found in N. Sumatra at Tanah Karo, at 2000 km distance from the Sikkim Himalaya, from where it was described.

NAYAR, M.P. & K.RAMAMURTHY, Third list of species and genera of Indian Phanerogams not included in J.D.Hooker's Flora of British India (excluding Bangladesh, Burma, Ceylon, Malayan Peninsula and Pakistan). Bull. Bot. Surv. India 15 (publ. 1976) 204-234.

+ 1000 taxa added to Indian flora; Nepal and Bhutan are included; alphabetical list.

NELSON, E.CH. Antoine Guichenot and Adenanthes (Proteaceae) specimens collected during Baudin's Australian Expedition, 1801-1803. J.Soc.Bibl.Nat.Hist. 8 (1976) 1-10, 3 fig., 1 map.

Location of specimens.

NG, F.S.P. Responses to leader-shoot injury in *Shorea platyclados* (Dipt.) Malays.For. 39 (1976) 91-100, 9 fig. New leadershoot emerges from dormant accessory buds.

----- The fruits, seeds and seedlings of Malayan trees XII-XV. Malays.For. 39 (1976) 110-111. Of Casuarina and *Diospyros* spp.

----- Tropical evergreen trees. Nature Malaysiana 2, 1 (1977) 20-23, 7 col.photogr.

Observations on leaf production and leaf shedding. Irregular in *Dyera*; one leaf each two weeks in *Macaranga tanarius*; 7 consecutive sets in *Neobalanocarpus heimii*; deciduous in *Pterocymbium*.

----- Shyness in trees. Nature Malaysiana 2, 2 (1977) 34-37, 5 col.photogr.

Observation and discussion of possible causes of 'crown-mosaic' in trees.

- *Gregarious flowering of Dipterocarps in Kepong 1976.*  
Malays.For. 40 (1977) 126-137, 1 fig., 4 tab.  
Observations in the arboretum. Increase in sunshine is  
supposed to be the stimulus, but only single factors,  
not combinations, are considered, and effects over the  
years are mentioned but not analyzed.—M.J.
- *Germination of fresh seeds of Malaysian trees. III.*  
Malays.For. 40 (1977) 160-163.  
Table with data of 115 species.
- NICOLSON,D.H. (430) *Proposal for the conservation of 787*  
*Pinellia Tenore (1839) against Atherurus Blume (1837)*  
(Araceae). Taxon 26 (1977) 338-339.  
Sinojapanese genus.
- NOTODIHARDJO,D. *Mucuna bennetti F.Muell. (bunga kuku macan).*  
(Legum.) Bul.Kebun Raya 3 (1977) 59-62, 2 fig.  
Description and propagation of this ornamental vine.
- \*OCHSE,J.J. & R.C.BAKHUIZEN VAN DEN BRINK, *Vegetables of the*  
*Dutch East Indies (edible tubers, bulbs, rhizomes and*  
*spices included). Survey of the indigenous and foreign*  
*plants serving as pot-herbs and side-dishes.* Asher,  
Amsterdam (repr. 1977) xxxvi + 1006 pp., 463 fig.  
In 1931 this work appeared in Dutch under the title  
'Indische Groenten' and simultaneously an English edi-  
tion was issued. The present reprint is, in a handier,  
slightly reduced format, provided with a new preface  
and appended with a list of scientific names compiled  
by Dr. R.C.Bakhuzen van den Brink Jr, to replace that  
of the 1931 edition.  
It is strange that in the title 'Dutch East Indies' is  
not replaced by 'Indonesia'.  
It is regrettable that the changes of the scientific  
names are not incorporated in the text, but are listed  
in an appendix. This is doubtless done for the sake of  
economy in this offset print. For the reader footnote  
cross-references would have been desirable.  
It is pleasant to know that at least for those not in  
command of Dutch the valuable contents are now again  
available, as the original edition was long out of  
print.—v.St.  
Also reviewed on page 3069.
- OHASHI,H. *Crotalaria kanaii, a new Leguminosae from Central*  
*Himalaya.* J.Jap.Bot. 51 (1976) 299-302, 2 fig.
- *Studies in the genus Campylotropis (Legum.) (4).* J.Jap.  
Bot. 51 (1976) 345-348, 2 fig.  
1 n.sp. from Burma.

- & Y.TATEISHI, Notes on *Lathyrus japonicus* in Japan (Legum.) J.Jap.Bot. 52 (1977) 233-234.
- OHBA, H. Notes on Himalayan *Sedum* (4) (Crassul.) J.Jap.Bot. 51 (1976) 295-298.  
N.sp.
- Ditto (5). J.Jap.Bot. 51 (1976) 385-387.  
Rhodiola elevated to genus; 8 new comb.
- On the Himalayan species of the genus *Rosularia* (Crassulaceae). J.Jap.Bot. 52 (1977) 1-13.  
Key to 5 spp.; segregate of *Sedum*.
- The taxonomic status of *Sedum telephium* and its allied species (Crassulaceae). Bot.Mag.Tokyo 90 (1977) 41-56.
- \*OOMEN, H.A.P.C. & G.J.H.GRUBBEN, Tropical leaf vegetables in human nutrition. Commun. 69 Dept.Agric.Res.; Kon.Inst. Tropen A'dam (1977) 136 pp., 65 fig.  
An excellent, small book, well-illustrated, for practical purpose.
- ORCHARD, A.E. Rediscovery of *Gonocarpus trichostachyus* (Haloragaceae). Rec.Auckl.Inst.Mus. 13 (1976) 109-110, 4 fig.  
Rare species.
- Taxonomic revisions in the family Haloragaceae. II. Further notes on *Haloragis*, *Haloragodendron* and *Gonocarpus*. Nuytsia 2 (1977) 126-144, 11 fig. & maps.  
Critical notes; 1 n.sp.; 1 new sect. in Australian spp.
- OSOTSAPAR, Y. & B.T.MERCADO, Morphology and anatomy of *Eleocharis dulcis* (Burm.f.) Trin. (Cyper.) Kalikasan 5 (1976) 332-340, 10 fig.
- OZA, G.M. *Rungia muralis* Nees for India (Acanth.) Indian For. 103 (1977) 157, photogr.  
Reinstated as a species.
- PADMONO, S.C. Kara, *Phaseolus lunatus* L., sebagai sumber makanan protein di Indonesia (Legum.) Bul.Kebun Raya 2 (1976) 219-221.  
English summary. Importance of the lima bean.
- PALLITHANAM, J. *Indigofera karuppiana* nom.nov. (Legum.) J. Bomb.Nat.Hist.Soc. 73 (1976) 239.  
For *Indigofera vestita* Baker 1876, non Harvey 1859.
- PAMPLONA, P.P. & B.L.MERCADO, Dormancy and germination of *Rottboellia exaltata* L.f. (Gram.) Philip.J.Sc. 103 (1974) 191-197, 5 tab.  
Light and contact with soil promoted germination.

- PANGGABEAN, G. Tanaman duku (*Lansium domesticum* Corr.) yang kita kenal (Meliac.) Bul. Kebun Raya 2 (1976) 229-232, 1 fig.  
With English summary.
- PANT, P.C. Plants of Corbett National Park, Uttar Pradesh. J. Bomb. Nat. Hist. Soc. 73 (publ. 1977) 287-295, 1 map.  
Introduction; name list.
- PARHAM, B.E.V. & E.J. HEALY, Common weeds in New Zealand. An illustrated guide to their identification. New Zeal. DSIR Inform. Series no 112 (1976) 173 pp., photographs by J. Somers Cocks.  
Atlas of 141 weeds, each photograph with a brief description.
- PAUL, S.R. *Smilax siamensis* T. Koyama, new to Indian flora (Liliac.) Acta Bot. Indica 3 (1975) 167-168, 1 fig.
- PAYNE, W.H. Grow from seed. I. Propagation of Myrtaceae. Austr. Plants 9, no 69 (1976) 10-44.  
On Beaufortia and Melaleuca spp.; followed by a key to Australian Myrtaceae genera by Debenham.
- \*PEAT AND PODZOLIC SOILS / and their potential for agriculture in Indonesia. Proc. ATA 106 midterm Seminar, Tugu, Oct. 13-14, 1976, 198 pp. offset. Soil Inst., Jl. Juanda 98, Bogor, Indonesia.  
Five papers discuss peat; four deal with other poor acid soils. How can these large tracts of soils be 'developed'? The problems are not underrated, although they are unwelcome. This volume gives a nice overview, supported by reference lists, and good summaries of the discussions. Peat deeper than 2-3 m seems not exploitable at all. Most crops need extra fertilization and dressing with trace elements; see under Driessen in this Bibliography. In a fine paper on p. 95-115, shifting cultivation in Borneo is explained as a sophisticated, not primitive method. Botanically interesting is also Anderson's paper; see there.—M.J.
- PEDLEY, L. *Polycarpaea* in Australia (Caryoph.) Austrobaileya 1 (1977) 49-62.  
Key to 12 spp. (3 new) and number of varieties. Incl. single record of *P. corymbosa* from New Guinea and critical remarks on the systematics of this species.
- PERDUE Jr., R.E. & J.L. HARTWELL (ed.), Proceedings of the 16th Annual Meeting of the Society for Economic Botany. 'Plants and Cancer' (1976) — Reviewed on page 3079.

- PHILIPSON, W.R. *An enumeration of the Malesian species of Aralia L.* Gard.Bull.Sing. 30 (1977) 97-100.  
Key to 6 spp.; Acanthophora reduced.
- *A revision of the Malesian species of Arthrophyllum Bl.* (Araliaceae). Gard.Bull.Sing. 30 (1977) 299-312, 18 fig.  
Key to 17 spp. (8 new, 1 nom.nov.).
- \*POORE, D. *Ecological guidelines for development in tropical rain forests* (1976) — Reviewed on page 3071.
- PRADHAN, U.C. *The Himalayan Cypripediums.* Proc. 8th World Orch. Conf. Palmengarten Frankf. April 1975 (1976) 199-204, 4 maps.  
Key to 4 spp.
- \*PRANCE, G.T. & T.S. ELIAS (ed.), *Extinction is forever / Threatened and endangered species of plants in the Americas and their significance in ecosystems today and in the future* (1977) — Reviewed on page 3073.
- PURKAYASTHA, S.K., K.B.S. JUNEJA & S.M.H. KAZMI, *Anatomy of more important Andaman commercial timbers (with notes on their supply, properties & uses).* Indian For. Rec. n.s. Wood Anat. 2 (1976) 1-48, 18 pl.  
List of 36 timbers; anat. quality.
- RABOR, D.S. *Notes on the ecology of the Sulu Archipelago. The Pterocarpus* 3 (1977) 33-41, 1 map.  
Brief description. Most of the original dipterocarp forests are gone, partly replaced by low forest and scrub. Species not named.
- \*RADFORD, A.E., W.C. DICKISON, J.R. MASSEY & C. RITCHIE BELL c.s. *Vascular Plant Systematics.* Harper & Row Publ. Inc., New York (1974) 891 pp., illus.  
Elaborate introduction for students on all aspects of taxonomy and plant-geography; methodologies; publication; keys; making mss. etc. The work is very much tuned on American botany and botanists. A perspective with which I heartily disagree is the suggestion that future taxonomy cannot be without computers. The book is also intended for teachers extracting lectures from it.—v.St.
- RADHAKRISHNAN, S. *Some aspects of the distribution and seasonal abundance of macrophytic flora in the brackish lake Pulicat, India.* In: Varshney & Rzóska (ed.), *Aquatic Weeds SE. Asia* (1976) 107-117, 2 fig., 3 tab.

- RAMACHANDRAN,C., T.RAMAPRABHU & S.B.SINGH, *A survey of aquatic weed infestations in Andhra Pradesh.* In: Varshney & Rzóska (ed.), Aquatic Weeds SE. Asia (1976) 91-98, 4 tab.
- RAO,A.S. & P.K.HAJRA, *Paphiopedilum fairieanum* (Lindl.) Pfitz., habitat, descriptive and cultural notes (Orch.) Indian For. 103 (1977) 29-32, 2 fig.
- & D.M.VERMA, Materials towards a monocot flora of Assam. III. Taccaceae, Dioscoreaceae & Stemonaceae. Bull.Bot. Surv. India 15 (publ. 1976) 189-203, 4 pl. Keys; descr.; 2 Taccas, do not agree with Drenth's monograph; no new spp.—v.St.
- RAO,T.A. & J.BHATTACHARYA, Typology and distributional pattern of foliar sclereids in *Plethiandra* Hook.f. (Melast.) Proc. Ind. Ac. Sc. 86B (1977) 45-53, 19 fig. 7 spp. keyed out on sclereids, the type of which is characteristic for the genus.
- RASMUSSEN,F.N. *The genus Corymborkis* Thou. (Orchidaceae). A taxonomic revision. Bot.Tidsskr. 71 (1977) 161-192, 19 fig. & maps, 1 tab. Key to 5 spp.; distribution maps.
- RATKOWSKY,D.A. Changes in the abundance of the vascular plants of the Mount Wellington Range, Tasmania, following a severe fire. Pap.& Proc.R.Soc.Tasm. 110 (1976) 63-90, 1 map. In spite of devastating fires 8 years ago, a large number of species is still found; total 450, which is c. 1/3 of the total for the island. Obviously the flora is adapted to fires (like that of Australia and South Africa).—v.St.
- RAVI,N. *Indigofera benthamiana* Hance (Papilionaceae). A new record from India (Legum.) J.Bomb.Nat.Hist.Soc. 73 (1976) 242-243, 1 pl.
- RICK,C.M. A key to the species of *Lycopersicon* (and *Solanum pennellii*) (Solan.) Solanaceae News. no 4 (May 1977) 11-12. Key to 9 spp.
- & F.H.BORGNO, A method for improving seed germination of Solanaceous species. Solanaceae News. no 4 (May 1977) 7-8. Advice soaking seed in 2.7% sodium hypochlorite for 30 minutes.
- RIFAI,M.A. Extraordinary uses of orchids in Indonesia. Bul. Kebun Raya Indon. 2 (1976) 125-128.

- RISWAN, S. *Perjalanan ke Gunung Papandayan.* Bul. Kebun Raya Indon. 2 (1976) 213-217, 1 map.  
 Brief report on botanical excursion to Mt. Papandajan in W. Java. With English summary.
- ROBSON, T.O. A review of the distribution of aquatic weeds in the tropics and sub-tropics. In: Varshney & Rzóyska (ed.), Aquat. Weeds SE. Asia (1976) 25-30.  
 Waterplant pests; main spp. recorded for countries.
- ROJO, J.P. Recent changes in nomenclature of some Philippine trees. The Philippine Lumberman 19, no 8 (August 1973) 40-50 and 19, no 9 (date unknown) 37-45.  
 Compilation for local use from taxonomic literature (1963-1973) involving 363 species. No novelties.—M.J.
- Notes on the natural regeneration of toog, Petersianthus quadrialatus (Merr.) Merr. Sylvatrop.Philip.For. Res.J. 2 (1977) 277-286, 7 phot.  
 Lecythidaceae; a little-known genus, newly discovered to give fine plywood. Regeneration is quite good; seedlings are depicted.—M.J.
- Pantropic speciation of *Pterocarpus* (Leguminosae-Papilionaceae) and the Malesia-Pacific species. The Pterocarpus 3 (1977) 19-32.  
 Summary of the author's 1972 monograph.
- ROSS, J.H. An analysis of the Flora of Victoria. Muelleria 3 (1976) 169-176, 4 fig., 4 tab.  
 Number of families and genera, and spp. of large genera.
- ROYEN, P.VAN, Note on *Arrhenechthites haplogyna* (Asteraceae) (Comp.) Blumea 23 (1977) 341-343, 1 fig.  
 Emended descr.
- RUSKIN, F.R. *Leucaena. Promising forage and tree crop for the tropics.* National Acad.Sci.Washington D.C. (1977) 1-98, 52 fig., 8 tab.  
 Various aspects of the usefulness of *L. leucocephala*.
- \*RIJKSEN, H.D. A field study on Sumatran orang utans (*Pongo pygmaeus abelii* Lesson 1827). Ecology, behaviour and conservation (1978) — Reviewed on page 3080.
- SAHNI, K.C., S.CHAWLA & S.S.R.BENNET, A note on an infraspecific taxon of *Albizia chinensis* (Osbeck) Merrill (Legum.) Indian For. 103 (1977) 354-355.
- & H.B.NAITHANI, *Solanum sisymbriifolium* Lamk., a woody undershrub new for North India (Solan.) Acta Bot.Indica 2 (1974) 151-153, 5 fig.

- SANGAT, H.M. *Soga dan jenis tumbuhan lain yang dipakai dalam pembatikan.* Bul.Kebun Raya 3 (1977) 53-57.  
Plants listed to be used for dyeing purpose (batik).
- SANTRA, S.C. & T.K. ADHYA, *Zygnemataceae of Eastern Himalaya. I. Spirogyra.* Bull.Bot.Surv.India 15 (publ. 1976) 281-282, 1 pl.  
4 Spirogyras.
- \*ASTRAPRADJA, S. (ed.) e.a., *Anggrek Indonesia.* Lembaga Biologi Nasional - LIPI, Bogor, Indonesia (1976) 129 pp., 60 fig.  
A popular booklet in Indonesian on 59 species of well-known showy orchids with a potential for cultivation, each accompanied by a rather elegant line-drawing of the habit, sometimes with flower detail. Both Latin and vernacular name are given, brief description, species distribution, the period flowers last, and collecting stations of the Bogor Gardens. Conservation is touched upon in the preface. A general introductory treatment might have carried the book to a wider public.
- SAXENA, H.O. & S.N. KHOTOLE, *A contribution to the flora of Bastar (Madhya Pradesh).* J.Bomb.Nat.Hist.Soc. 73 (1976) 21-34.  
List of 319 spp.; no novelties.
- \*SCHMITHÜSEN, J. *Atlas zur Biogeographie.* Bibl.Inst.Mannheim/Wien/Zürich (1976) 80 pp. with maps.  
Includes map on vegetation types and ranges of plants and animals. Unfortunately the maps are copied from often old literature, and are for Malesia incomplete (e.g. *Asplenium trichomanes*, *Magnoliaceae*, *Clethra*, *Sparganiaceae*) or wrong (*Luzula*).
- SCHOLZ, H. *Notizen zu einigen Axonopus-Arten (Gramineae-Paniceae) nach Berliner Typenmaterial.* Willdenowia 8/1 (1977) 93-99.
- SEIDENFADEN, G. *Contributions to the Orchid Flora of Thailand.* VII. Bot.Tidsskr. 71 (1976) 1-30, fig. 1-24.  
Various; incl. revisions of the genera *Trias* and *Otochilus*.
- *Thalia maravara and the rigid air-blossom. Notes on some species of Acampe (Orchidaceae).* Bot.Mus.Leaf. Harv.Univ. 25 (1977) 49-69, pl. 8-12.  
*A. rigida*, Africa to Malaya.
- *Orchid genera in Thailand. V. Orchidoideae.* Dansk Bot. Ark. 31 (1977) 1-149, 89 fig.  
Revision of *Brachycorythis*, *Platanthera*, *Hemipilia*, *Herminium* (also in Malaya), *Pecteilis*, *Peristylus*, *Habenaria*, *Diplomeris* and *Disperis*.

----- *A note on Dendrobium serpens (Hk.f.) Hk.f.* (Orch.)  
*Gard.Bull.Sing.* 30 (1977) 269-274, 2 fig.  
 Confined to S. Thailand and Malaya.

SEN,A. *A new species of Teramnus Sw. from Manbhum, India*  
*(Legum.) J.Bomb.Nat.Hist.Soc.* 73 (1976) 187-188.

SEN GUPTA,G. & RAM LAL, *Flora of Sidhi District, Madhya Pradesh.* I. *Bull.Bot.Surv.India* 15 (publ. 1976) 182-188, 1 map.

Introduction; descr. vegetation.

SHAH,N.C. & L.D.KAPOOR, *Botany of Tylophora indica (Burm.f.) Merr.* *Quart.J.Crude Drug Res.* 14 (1976) 27-34, 3 fig.  
*Asclepiadaceae of S. India. Anti-asthmatic. Horticultural observations.*

SHARMA,M. *A systematic account of the cultivated flora of Punjab.* *Bull.Bot.Soc.Beng.* 29 (1975) 141-146.  
 Species listed under categories.

----- *Hypecoum procumbens Linn.: A new record for India*  
*(Papav.) J.Bomb.Nat.Hist.Soc.* 73 (publ. 1977) 422-423.

SHAW,H.K.AIRY, *Additions and corrections to the Euphorbiaceae of Siam.* *Kew Bull.* 32 (1977) 69-83.  
 New records, various n.spp.; *Myladenium* n.g. n.sp.

SHETTY,B.V., S.KARTHIKEYAN & K.VIVEKANANTHAN, *Notes on some interesting grasses from Southern India.* *Bull.Bot.Surv. India* 15 (publ. 1976) 276-278.

SHETTY,H.R. *Sandal - an exotic?* *Indian For.* 103 (1977) 359-367, 2 fig., 1 tab.  
 Author is unaware of conclusive paper by C.E.C.Fischer,  
*Kew Bull.* (1927) 193-202, which solved the matter.—  
 v.St.

SHIMIZU,T. *Some additional notes on Impatiens (Balsaminaceae) of Thailand.* *Acta Phytotax.Geobot.* 28 (1977) 31-34, 6 fig.  
 Several records; 2 n.spp.

SHIVARAJAN,V.V. & K.S.MANILAL, *A taxonomic note on Borreria articulalis (Linn.f.) Williams (Rub.)* *New Botanist* 2 (1975) 88-90, 2 fig.  
 2 varieties.

SIDDIQI,M.R. & TH.K.WILSON, *Comparative morphology of the genus Knema (Myristicaceae). General discussion and conclusions.* *Biologia* 22 (1976) 305-308, 1 tab.  
 Discussion on relationships; morphology.

- SIMPSON, M.J.A. *Fruit characters and seed germination of Eu-phrasia disperma Hook.f. (Scroph.)* New Zeal.J.Bot. 15 (1977) 181-183, 2 fig.  
Has a loculicidal capsule, often 1-celled by abortion.
- SINGH, G. *New records of flowering plants for Kashmir. I.* Bull.Bot.Surv.India 14 (1975) 151-152.  
8 records.
- SINHA, R. & A.MISRA, *Plant exploration at Darbhanga, North Bihar.* Bull.Bot.Soc.Beng. 29 (1975) 65-70, 1 map.  
Brief account of names.
- SMITH, A.C. *Studies of Pacific Island plants. XXXIII. The genus Ascarina in the Southern Pacific (Chloranth.)* J.Arн.Arб. 57 (1976) 405-425, 19 fig.  
Key to 10 spp. among which 3 new.
- SMITH, J.M.B. *Origins and ecology of the tropicalalpine flora of Mt Wilhelm, New Guinea.* Biol.J.Linn.Soc. 9 (1977) 87-131, 6 fig.  
Plio-Pleistocene migration by long-distance dispersal.
- SMITH, R.M. *Additional notes on Alpinia sect. Myriocrater (Zing.).* Notes R.Bot.Gard.Edinb. 35 (1977) 195-208, 1 map.  
Key to 22 spp. of this section which occurs in Philip-pines, Celebes, Moluccas, Lesser Sunda Is., New Guinea, New Britain, Solomons; 3 n.spp.
- *A new genus of Zingiberaceae from S. India.* Notes R. Bot.Gard.Edinb. 35 (1977) 365-368, 1 fig.  
Paracantleya n.g. n.sp., aff. Roscoea and Cantleya.
- SNEED, M.W. *Palm collecting adventures in Asia.* Principes 21 (1977) 63-71, 10 fig.  
Trip along Penang, Malaya, Sarawak; collected seeds.
- *Ditto. II. Indonesia.* Principes 21 (1977) 123-130, 9 fig.  
Observations in Java and Bali.
- SOEMARNA, K. *Regeneration and residual standing stock survey on loggedover area in forest district Batanghari, Jambi, Sumatra.* Lembaga Penelitian Hutan Bogor, Laporan no 235 (1976) 34 pp. mimeogr. + appendices, tab.  
In Indonesian, with English summary. Tree list.
- SOENARKO, S. *The genus Cymbopogon Sprengel (Gramineae).* Rein-wardtia 9 (1977) 225-375, 39 fig. & maps.  
Good introductory chapters to this large monograph; key to 5 sections, within this key to 55 spp.; descr. with full notes; 2 n.spp. (based on former varieties), 1 new variety, 1 new subsp.

- *A new species of Nastus Nees from Sumba (Gram.)* Gard. Bull.Sing. 30 (1977) 17-19, 1 fig.
- SOEPADMO,E. *Ginger plants.* Nature Malaysiana 1, no 2 (1976) 32-39, 13 col.photogr. Popular.
- *Pitcher plants.* Nature Malaysiana 2, no 3 (1977) 38-43, 11 col.photogr. Popular.
- & B.K.EOW, *The reproductive biology of Durio zibethinus Murr.* Gard.Bull.Sing. 29 (1977) 25-33, 6 pl. Five other spp. are edible; density to 3-4 trees per hectare. Wild spp. may be pest-resistant, flowering more regularly, and lower down the trunk. This paper offers materials for a breeding program. Durian flowers at age 5-12, in Malaya twice a year for c. 2 weeks; hours given. Fruits ripen in 3 months. Anatomy of young flower described. Insects come in afternoon, bats at night, only one is a true pollinator; other species it visits are named. The one tree studied has some self-compatibility. Germination is described, but Mr. E.F.de Vogel informs me that other modes also occur in this species. References 22.—M.J.
- SOERJANI,M. *Aquatic weed problems in Indonesia. With special reference to the construction of man-made lakes.* In: Varshney & Rzóska (ed.), Aquatic Weeds SE. Asia (1976) 63-78, 7 fig., 6 tab.
- SOETISNA,U. & E.HIDAJAT, *Pohon asam (Tamarindus indica L.)* (Legum.) Bul.Kebun Raya 3 (1977) 63-66, 2 fig. General; uses.
- SOEWANDA AMONG PRAWIRA,R. (ed.), *List of tree species, Central Java, Madura.* Lembaga Penelitian Hutan Bogor, Laporan no 244 (1977) 131 pp. mimeogr., 54 pl. In Indonesian, with English summary. Arranged by families; each species with brief note.
- *List of tree species. Java-Madura (III), Java-Timur (East Java).* Lembaga Penelitian Hutan Bogor, Laporan no 253 (1977) 143 pp. mimeogr., 55 pl. New edition.
- SOHMER,S.H. *New taxa and names in Psychotria (Rubiaceae) in Sri Lanka.* Bot.Notis. 129 (1976) 377-381, 2 fig. 1 n.sp., 1 new var., 2 new names.
- SPORNE,K.R. *Girdling vascular bundles in dicotyledon flowers.* Gard.Bull.Sing. 29 (1977) 165-173, 12 fig., 2 phot. Lateral interconnections between vascular bundles were

looked for in 150 families, and to the known 9, it is claimed that 11 were added. The list now runs: Begoniaceae, Campanulaceae, Caricaceae, Cistaceae, Combretaceae, Ericaceae, Flacourtiaceae, Gentianaceae, Hydrocaryaceae, Leguminosae, Loasaceae, Lythraceae, Melastomataceae, Onagraceae, Stylidiaceae, Tiliaceae, Tropaeolaceae, Valerianaceae, Violaceae. This makes 19, I can't find the 20th. There are none in Magnoliidae, Caryophylloideae, Hamamelidae sensu Cronquist.—M.J.

\*SRIVASTAVA, T.N. *Flora Gorakhpurensis*. Publ. by Today & Tomorrow's Printers & Publ., New Delhi (1976) viii + 411 pp. text, 40 pl.

Eastern district of Uttar Pradesh. A complete offset produced Flora, with descr. and keys; 26-27.5°N, 83-84.5°E.

STACE, H.M. & Y.J. FRIPP, *Raciation in Epacris impressa*. I. *Corolla colour and corolla length*. II. *Habitat differences and flowering times*. III. *Polymorphic populations* (Epacrid.) Austr.J.Bot. 25 (1977) 299-314, 14 fig., 3 tab.; 315-323, 5 fig.; 325-336, 11 fig., 2 tab.  
4 races discriminated.

STEARN, W.T. *Union of Chionanthus L. and Linociera Sw. (Oleaceae)*. Ann.Mo.Bot.Gard. 63 (1976) 355-357.

Several new neotrop. combinations. Tropical and temperate spp. cannot be assigned to 2 genera.

----- *The earliest European acquaintance with tropical vegetation*. Gard.Bull.Sing. 29 (1977) 13-18.

Calls attention for H.Bretz'l's massive work *Botanische Forschungen des Alexanderzeuges* (1903). Ficus from that expedition (325-326 B.C.) was described by Theophrastus. Also mangroves and bamboos mentioned.—M.J.

STEENIS, C.G.G.J.VAN, *Autonomous evolution in plants. Differences in plant and animal evolution*. Gard.Bull.Sing. 29 (1977) 103-126, 3 fig.

A sequel to the author's 1969 paper on saltatory evolution. Plants are more conservative, more passive in their evolution than animals. Above survival level, a 'patio ludens' is available for the many structures and processes not necessary for competition, selection, and adaptation; plants have more of such luxury area to play with than animals do, once early differentiation has set the pattern. Gymnosperms are no less fit than angiosperms. Animals evolve more by population, plants more by individuals. In classic cases of co-evolution like orchids and figs, the plants evolved autonomously (often suddenly, through what are commonly named monsters), and the animals adapt themselves.—M.J.

----- *Bignoniaceae.* Ident. Lists Males. Specim. no 54 (1977) 974-988.

STERLY, J. *Useful plants of the Chimbu, Papua New Guinea.* Ethnomedizin III, 3/4 (1974/75) 353-393, 8 fig., map.  
Arranged by uses and also alphabetical by species.

STEWART, D.A. *Sowerbaea subtilis*, a new species from Queens-land (Liliac.) Proc.R.Soc.Qd. 87 (1976) 85-86, 1 pl.

STIRTON, C.H. *Some thoughts on the polyploid complex Lantana camara L.* (Verb.) Proc. 2nd Naturalized Weeds Conf. (ed. D.P. Annecke Balkema, Cape Town) (1977) 321-340.  
*L. camara* man-made complex; history of oldest introductions; mixture of polyploid types; may be also apomixis occurs; world map of range.

ST.JOHN, H. *Revision of the genus Pandanus Stickman. Part 39. Pandanus of Rotuma Island, Pacific Ocean.* Pacif.Sci. 29 (1975) 371-406, fig. 347-363.  
Key to 8 spp. (5 new).

----- *Ditto. Part 40. The Fijian species of the section Pandanus.* Pacif.Sci. 30 (1976) 249-315, fig. 364-394.  
Key to 30 spp. (25 new, 2 new comb.).

----- *New species of Hawaiian plants collected by David Nelson in 1779.* Haw.Pl.Stud. 52. Pacif.Sci. 30 (1976) 7-44, 20 fig.

Several n.spp. descr. in Neraudia, Peperomia, Urera, Achyranthes, Euphorbia, Sida, Phyllostegia, Stenogyne, Clermontia, Cyanea, Lipochaeta.

----- *Additions to the Flora of Futuna Island, Horne Islands.* Pac.Pl.Stud. 33. Phytologia 36 (1977) 367-373, 1 fig.  
Name list.

----- *The Flora of Niuatoputapu Island, Tonga.* Pac.Pl.Stud. 32. Phytologia 36 (1977) 374-389.  
Name list.

STONE, B.C. *On the biogeography of Pandanus (Pandanaceae).* C.R.Soc.Biogeogr.Paris Séance 458 (1975) 69-90, many maps.

Author acknowledges 8 subgenera with 62 sections, 23 subsections. This paper gives their areas in outline, and names means of dispersal (oceanic, fresh-water, animals) which mostly are valid for whole sections.  
Nine man-dispersed species are listed. Fossil records and theoretical considerations are briefly dealt with.

—M.J.

- *The morphology and systematics of Pandanus today (Pandanaceae).* Gard.Bull.Sing. 29 (1977) 137-142.  
Growth of data: 468 spp. are now known, of which 70% was described after 1900, and nearly half since 1939. Recognized are 8 subgenera, 62 sections, 22 subsections (enumerated). The anatomical work in French by K.L. Huynh (Bot. Jahrb. 1974) is reviewed: 7 stomata types correlate well with taxonomic distinctions.—M.J.
- *Notes on the systematy of Malayan Phanerogams. XXV. Araliaceae.* Gard.Bull.Sing. 30 (1977) 275-291, 7 fig. Acanthophora reduced to Aralia; Wardenia to Brassaiopsis; critical notes on Arthrophyllum and Hederopsis; 2 n.spp. in Brassaiopsis and Schefflera.
- STORY, R., J.M. ALDRICK, c.s. *Lands of the Alligator Rivers Area, Northern Territory.* CSIRO Land Research Series no 38 (1976) 171 pp., illus.  
Land systems; climate, geology, geomorphology, soils, erosion, vegetation.
- STRONG Jr, D.R. *Epiphyte loads, tree falls, and perennial forest disruption: a mechanism for maintaining higher tree species richness in the tropics without animals.* J.Bio-geography 4 (1977) 215-218.  
Causes higher tree fall rates in lowland forest contributing to spot-wise mosaic-regeneration.
- SUBBA RAO, G.V., G.R. KUMARI & V. CHANDRASEKARAN, *Notes on some rare plants collected from Nilgiri District, South India.* Bull.Bot.Surv.India 15 (publ. 1976) 275-276, 1 fig.  
One fern, one orchid.
- SUBRAMANIAN, K.N. & K.B. KALYANI, *Contribution to the Flora of Dimban Ghats and adjoining areas of Coimbatore District, Tamilnadu State.* Indian For. 103 (1977) 112-119.  
Brief introduction and name list.
- SUMARDJA, E.A. & K. KARTAWINATA, *Vegetation analysis of the habitat of banteng (*Bos javanicus*) at the Pananjung - Pangandaran Nature Reserve, West Java.* Biotrop Bull. no 13 (1977) 3-43, 11 fig., 11 tab., 1 appendix.  
Peninsula on the S. coast at 109°E. Description of the area, with species lists of grassfields, young and old secondary forest (20 and 60 years), 183 in all. Succession patterns are discussed.—M.J.
- SUR, P.R. *Pogonatherum santapaui sp.nov. (Poaceae), a new grass from India (Gram.)* J.Bomb.Nat.Hist.Soc. 73 (1976) 190-192, 1 fig.

- TAMARI,C. *Phenology and seed storage trials of Dipterocarps.* FRI Res.Pamphl. no 69 (1976) 73 pp., 24 fig., 13 tab.
- TANTRA,I.G.M. & ANGGANA, *Inventarisasi flora Cagar alam Batukahu (Bali).* Lembaga Penelitian Hutan Bogor, Laporan no 245 (1977) 14 pp. mimeogr., 13 photogr., 1 map. In Indonesian, English summary. Trees listed of plot in Bali.
- TATEISHI,Y. & H.OHASHI, *A second species of Nesphostylis from Asia (Legum.)* Bot.Mag.Tokyo 90 (1977) 149-152, 1 fig., 1 tab.  
Monotypic in Africa; 2nd sp. in Burma, formerly incl. in Dolichos and Vigna; 1 new comb. Seven genera are African-Indian.
- TATEOKA,T. *Natural hybridization in Japanese Calamagrostis.* I. *Several interspecific combinations in Central Honshu.* Bot.Mag.Tokyo 90 (1977) 103-128, 10 fig. & maps, 3 tab.
- TAYLOR,P. *On the collecting and preparation of Utricularia specimens.* Fl.Mal.Bull. 30 (1977) 2831-2832.
- *Utricularia (Lentibulariaceae).* Ident.Lists Males.Specim. no 55 (1977) 989-997.
- & J.J.WOOD, *Dendrobium fantasticum (Orch.)* Curtis Bot. Mag. n.s. 181 (1977) tab. 727, 3 pp., 1 fig.  
From Papua.
- TEMPLE,S.A. *Plant-Animal mutualism: coevolution with Dodo leads to near extinction of plant.* Science 197 (1977) 885-886.  
Since the giant dodo became extinct, the sapotaceous Calvaria major is suggested to be unable to germinate because of its colossal endocarp which had to pass the intestinal tract and was crushed in the gizzard. If true, most interesting!—v.St.
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Late Cretaceous gradually saw evolution of extant groups. Southeast Asia and attendant archipelagoes between Ceylon, Formosa, Queensland and Fiji seem the primary centre of preservation and probably the primary centre of origin. Much of this flora may come from Gondwanaland; currently accepted time tables do not contradict this assumption. One paragraph is devoted to the history of each continent; many families named.— M.J.
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Referat by G.Natho of a thesis. Subdivision of genus.

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Allied to *J. balticus*.

VERDCOURT, B. The identity of *Papilionopsis stylidiooides* (Legum.) *Kew Bull.* 31 (1977) 845-846.

Consists of discordant elements, flowers of *Desmodium repandum*, leaves of *Burmannia disticha*.

----- The identity of two New Guinea plant names. *Kew Bull.* 32 (1977) 221-223.

*Cassia pachycarpa* reduced; *Affonsea pteropoda* reduced to *Harpullia rhachiptera* (Sapind.).

----- New taxa of Leguminosae from New Guinea. *Kew Bull.* 32 (1977) 225-251, 3 fig.

N.spp. in *Archidendron*; *Schleinitzia* Warb. ex Harms reinstated (to which *Prosopis insularum* reduced!); n.spp. in *Cynometra*, *Maniltoa*, *Kingiodendron*, *Millettia*, *Desmodium*, *Pongamia*; critical remarks on others.

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Constancy at tribal level; bound to climate.
- \*WEALTH OF INDIA / Raw Materials (1976) — Reviewed on page 3084.
- WEBB,C.J. & T.H.WEBB, *Gunnera hamiltonii in Stewart Island, New Zealand.* New Zeal.J.Bot. 14 (1976) 361-363, 3 fig.
- WEBER,A. *The cristate inflorescence of Chirita sect. Microchirita (Gesneriaceae).* Notes R.Bot.Gard.Edinb. 34 (1975) 221-230, 4 fig.  
Indo-Malesian genus. The inflorescence is identical with the whole plant.
- *Wuchsform, Infloreszenz- und Blütenmorphologie von Epithema (Gesneriaceae).* Plant Syst.Evol. 126 (1976) 287-322, 17 Abb.  
Indo-Malesian and African genus, interpreted as anisophyllous. Shoot and inflorescence structure studied.  
Less related to Monophyllaea than M. to Whytockia; the tribes of these genera may be artificial.
- *Beiträge zur Morphologie und Systematik der Klugieae und Loxonieae (Gesneriaceae). II. Morphologie, Anatomie und Ontogenese der Blüte von Monophyllaea R.Br.* Bot. Jahrb. 95 (1976) 435-454, 6 Abb.  
Mainly *M. horsfieldii*, also *M. hirticalyx*, Gesneriaceae from Malesia.
- *Ditto. III. Whytockia als morphologische und phylogenetische Ausgangsform von Monophyllaea.* Beitr.Biol.Pfl. 52 (1976) 183-205, 6 Abb.  
Shoot organization and floral anatomy. Whytockia occurs in China, Formosa, Monophyllaea in Malesia.
- *Ditto. VI. Morphologie und Verwandtschaftsbeziehungen von Loxonia und Stauranthera.* Flora 166 (1977) 153-175, 12 Abb.  
Detailed comparison. The flowering shoots are sympodial. Both Malesian genera are closely related, also to Whytockia and Epithema. Hooked hairs are remarkable.

- *Revision der Gattung Loxonia (Gesner.). Plant Syst. Evol.* 127 (1977) 201-216, 4 fig. & map, 1 tab.  
Key to 3 spp. (1 new, from Borneo); revision; Bogor material not examined.
- WHITE, F.** *The underground flora of Africa: a preliminary review.* Gard.Bull.Sing. 29 (1977) 57-71, 3 fig.  
Geoxylic suffrutices are plants with a woody tuber in the soil, able to survive frequent burning of its branches. Listed are 101 spp. in 56 genera in 31 families, nearly all Zambesian, very few Sudanian (map with 6 'chorological' African regions given, also of Parinari capensis). They occur in old sparse grassland on very poor sandy soils alternatingly inundated and dried out, where burning is relatively mild. Comparison with intermediate forms suggests response mainly to soil conditions, during the latest 20,000 years. Frost may also play a role. Similar cases were known from S. America (and more recently from Thailand).—M.J.
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Important details in all aspects of Agathis.  
Reviewed on page 3084.
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