

LITERATURE REVIEW : Botany

AIRY SHAW, H.K.

1974. Notes on Malasian and other Asiatic Euphorbiaceae.
Kew Bull 29(2) : 281-331.

In a series of studies, continued from Key Bull. 27 : 93, 1972, *Aporusa*, *Glochidion*, *Phyllanthus*, *Drypetes*, *Petalostigma*, *Austrobuxus*, *Cleistanthus*, *Croton*, *Agrostistachys*, *Malotus*, *Claoxylon*, *Bocquillonia*, *Macaranga*, *Fahrenheitia*, *Fontainea*, *Dimorphocalyx* and *Hylandia* are treated.

Hylandia is a new genus; 37 new species and 6 new varieties have been described.

BARNERJI, M.L. and B.B. THAPA

1973. Orchids of Nepal.
J. Bombay Nat. Hist. Bull. 70(2) : 330-338, one plate (to be continued).

Covering genera *Arundina* (1 sp.); *Cephalanthera* (1 sp.) *Epipactis* (1 sp.); *Goodyera* (7 spp.); *Herpysma* (1 sp.); *Listera* (1 sp.); *Nervilia* (2 spp.); *Spiranthes* (1 sp.); *Thunia* (1 sp.); and *Zeuzine* (3 spp.).

Identification keys to genera and species are provided.

BARLOW, B.A.

1974. A revision of the Loranthaceae of New Guinea and the South-western Pacific.
Austral. J. Bot. 22 : 531-621, 8 figs.

Dealing with 12 genera, 59 species, 11 subspecies and 2 varieties, about one-half of the species recorded are endemic to New Guinea mainland. The distribution range is extended to Australia (9 species) and Indo-malaya (5 species).

Twelve species, 5 subspecies and one variety are described as new to science; 15 new combinations are made.

BEG, A.R. and Addus Samad KHAN

1974. Flora of Malakand Division. Part 1(A)
Pakist. J. For. 24(2) ; 171-184.

This instalment covers the introductory part dealing with geography and topography; geology, rocks and soils; climates; vegetation, etc.

BEG, A.R., Mansoor AHMAD, Sajjad HUSSAIN and Muqurrah SHAH

1974. Records of some higher fungi in West Pakistan.
Pakist. J. for. 24(2) : 120-136.

Recording 167 species in 105 genera, 24 families of fungi; no novelty.

BIRARI, Shrikant P.

1973. A new species of *Themeda* Forssk. from India.
J. Bombay Nat. Hist. Soc. 70(2). 346-347, one plate.

Themeda dacruzii is described, basing on a collection from Mussoorie Hill, Dehra Dum.

BLASCO, F. and P. LEGRIS

1973. Dry evergreen forest of Point Calimere and Marakanam.
J. Bombay Nat. Hist. Soc. 70(2) : 279-294, 3 plates.

The study on ecology, physiognomy and dynamism has been undertaken in these forests.

BREMEKAMP, C.E.B.

1974. A new species of *Oldenlandia* (Rubiaceae) from India with remarks on its inflorescence morphology.
Kew Bull. 29(2) : 359-361.

The new species is *Oldenlandia hygophila* from Kerala State, India.

BUTZIN, Friedhelm

1974. Bestimmungs Schlüssel für die in Kultur genommene Arten der Coelogyninae (Orchidaceae).
Willdenowia 7/2 : 245-260.

Identification key to genera and species of Coelogy-
 nae under cultivation has been provided.

CHEADLE, Vernon I. and Hatsume KOSAKAI

1974. A note on vessels in Hypolytreae of Cyperaceae.
Blumea 22 : 149-150.

The study of additional material substantiated the
 earlier study that Hypolytreae is the least specialized tribe
 in Cyperaceae.

More material for further study has also been requested
 by authors.

DAWSON, J.W.

1974. Pacific Capsular Myteceae 9. The *Metrosideros* complex.
M. queenslandica group.
Blumea 22 : 151-153, 13 figures.

Description of *Metrosideros queenslandica* group was
 given with illustrations.

FERGUSON, David K.

1974. The significance of the leaf epidermis for the taxonomy of
Cocculus (Menispermaceae).
Kew Bull. 29(3) : 483-492, 2 plates.

Leaves of 11 species of *Cocculus* have been examined,
 the epidermal and anatomical characters of which have
 some taxonomic value at the species level.

FOREMAN, D.B.

1974. A new species of *Horsfieldia* Willd. (Myristicaceae) from
 Papuasias.
Contr. Herb. Austral 10 : 45-47, one figure.

Horsfieldia corrugata has been described and illustrated.

1974. Notes on *Myristica* Gronov. (Myristicaceae) in Papuasias.
Contr. Herb. Austral. 9 : 35-43, 2 figs.

Ten species have been recorded, including one new species; an identification key to varieties of *Myristica fatua* was provided.

FORMAN, L.L. :

1974. The endocarps of *Cocculus* (Menispermaceae).
Kew Bull. 25(3) : 477-481, 2 plates.

The surface-pattern on the endocarps of *Cocculus* have been described and illustrated with SEM photographs. The value of these patterns in the taxonomy of the genus has been discussed.

Ten tentative key to *Cocculus* endocarps has been provided.

GROSSER, Dietger and G. Isidro ZAMUÑO, Jr.

1973. Anatomy of some Bamboo species in the Philippines.
Phil. J. Sci. 100(1) : 57-73, 8 plates.

The study of 5 species were undertaken, of which *Bambusa vulgaris* Schrad. ex Wendl. and its variety (var. *striata*), common in Thailand, are included.

GRAAFF, N.A. van der & P. BAAS.

1974. Wood anatomical variation in relation to latitude and altitude.
Blumea 22 : 101-121, 8 figures.

Seventeen hardwood genera have been studied on their anatomical variation in relation to altitude, basing on wood samples of 52 species. It was found that with the increasing latitude miniaturization of secondary xylem elements, together with an increase in vessel frequency; and frequency and expression of helical thickenings to the vessel walls are evident. Increasing altitude has similar but weaker effects, and none on vessel grouping or helical thickenings.

Tracheid length and, diameter and ray height of the soft wood genus *Podocarpus* are decreased with increasing altitude.

HATTINK, T.A.

1974. A revision of Malesian *Caesalpinia*, including *Mezoneuron* (Legumi nosae-Caesalpiaceae).
Reinwardtia 9(1): 1-69. 9 figures.

Being the first taxonomic revision of this genus, into which the genus *Mezoneuron* was sunk. Identification key is provided for the 20 recognized species.

Species from Thailand are as follows: *C. andamanica* (Prain) Hatt., N. SiThammarat (Sichon, *Kerr* 15689); Trat (Koh Chang, *Kerr* 16553); Phang-nga, *Kerr* 17343, Yan Yao, *Kerr* 18191. *C. bonduc* (L.) Roxb.; *C. crista* L.; *C. cucullata* Roxb.; *C. digyna* Rottl. (*Smitinand* 4861); *C. enneaphylla* (Prain) Hatt. *C. furfuracea* (Roxb.) Hatt.; *C. hymenocarpum* (Prain) Hatt. (*Bunchu Nimanong* 1484); *C. pubescens* (Desf.) Hatt. (Surat, *Kerr* 13111); and *C. sappan* L.

HEEL, W.A. van

1974. Flowers and fruits in Flacourtiaceae.
Blumea 22(1): 15-19, 3 figures and 6 photos.

Flowers and fruits in Flacourtiaceae have been studied.
 Seed of *Pangium eduli* has been critically studied.

HENNIPMAN, E.

1974. The lectotypification of *Acrotichum acuminatum* Willd. and the reinstatement of the name *Photinopteris speciosa* (Bl.) Presl
Blumea 22(1): 51-52.

As the taxon *Photinopteris acuminata* Morton (1967) is illegitimate, the well-known taxon *Photinopteris speciosa* (Bl.) Presl has been reinstated.

HOLTUM, R.E.

1974. *Asplenium* Linn. Sect. *Thamnopteris* Presl
Gard. Bull. Sing. 27(2): 143-154.

Identification key to 15 species has been provided.
 Two species, 2 varieties and one subspecies have been described as new to science.

Under this section 5 species also have their distribution range in Thailand.

HOLTUM, R.E.

1974. A commentary on comparative morphology in Zingiberaceae. Gard. Bull. Sing. 27(2) : 155-165, one text figure.

A critical commentary has been presented on the comparative morphology of Malayan Zingiberaceae; an attempt has been made to conform the use of term pertaining to inflorescence-structure.

The author suggested that experimental work would throw light on the structure of condensed lateral cymes.

- 1974 : The tree-ferns of the genus *Cyathea* in Borneo Gard. Bull. Sing. 27(8) 167-182

Dealing with 30 species, identification keys to subgenera, sections and species have been given. One new species has been described. Every taxon is provided with description.

Three species have their distribution range extended into Thailand.

1974. The genus *Trigonopora* (Thelypteridaceae) in Malasia. Reinwardtia 8(4) : 503-507, 1 map.

Two new combinations are proposed in the treatment of 3 taxa, i.e. *T. calcarata* (Bl.) Holtt., *T. koordersii* (Christ.) Holtt.; the other species is *T. ciliata* (Benth.) Holtt.

1974. The fern-genus *Pleocnemia*. Kew Bull. 29(2) : 341-357. One figure.

An enumeration of 19 species has been given with two new species from Sarawak and New Guinea, and 6 new combination. An identification key to species is provided.

Following species have their distribution range in Thailand : *P. irregularis*, *P. conjugata*, *P. winitii*, *P. hemitelliformis*.

HUARD, P., M.J. IMBAULT-HUART, Th. VETTER et. M. WONG

1973. Une thèse parisienne consacrée au ginseng en 1736 et présidée par Jean-Francoise Vandermonde.

Bull. Ecole Franc. extr. or. 60 : 359-374, Pls. XXV-XXVII.

JONCHEERE, G.J. De

1974. Nomenclatural notes on *Platycterium* (Fillices).

Blumea 22(1) : 53-55.

The improper typification of *Acrostichum alciorne* Sw. lead to later confusion of nomenclature. The author has designated the taxon *Platycterium alciorne* Desv. to the Madagascar East Africa plant with *Platycterium vassei* Poisson as a synonym.

KALKMAN, C.

1974. In Memoriam Dr. J.H. Kern.

Blumea 22(1) : 3

An obituary note of Dr. J.H. Kern, expired on 20th July, 1974.

KITAKAWA, Naofumi

1974. Miscellaneous notes on little-known species of Hepaticae, 26-50.

J. Hattori Bot. Lab. 37 : 263-273.

Dealing with 25 taxa from Asia, 6 species are new records for Thailand :

Calypogeia arguta Mont. & Nees. (Phu Miang), *Chiloscyphus stephanii* N. Kitg. (Doi Inthanond), *Radula apiculata* Sde. Lac ex Steph. (Khao Luang, N. Si Thammarat), *Thysananthus spathulistipus* (Reinw., Bl. & Nees) Lindenb. (Khao Chong), and *Trichocolea merrilleana* Steph. (Khao Luang, N. Si Thammarat).

KOSTERMANS, A.J.G.H.

1973. A synopsis of the genus *Dehaasia* Bl. (Lauraceae).

Bot. Jahrb. Syst. 93(3) : 424-480, 19 figures.

A revision of *Dehaasia* is given, resulting in a total number of 35 species, of which 14 are described for the first time; and 3 new combinations are proposed.

Following species are recorded from Thailand: *Dehaasia suborbicularia* (Lec.) Kosterm., *D. longipetiolata* Kosterm., *D. kurzii* King ex Hk.f., *D. kerrii* Kosterm., *D. incrasata* (Jack) Kosterm., and *D. candolleana* (Meisn.) Kosterm.

KOSTERMANS, A.J.G.H.

1973. A forgotten Ceylonese Cinnamon-tree (*Cinnamomum capparucoronde* Bl.)

Ceylon J. Sci. (Bio. Sci.) 10(2): 119-121.

Reporting on the rediscovery of this forgotten species after two and a half centuries from its first description based on a single detached leaf.

1973. Some new taxa.

Bot. Tidsskr. 68: 317-323, 3 figures.

Xylosterculia (Sterculiaceae) has been created to accommodate South American species; *Temmodaphne* (Lauraceae) a monotypic genus from Thailand; *Parinari euadenia* (Rosaceae) a new species from Thailand.

1974. A monograph of the genus *Neocinnamomum* Liou Ho.

Reinwardtia 9(2): 85-96.

Dealing with 9 species, all confined to Asia. A key to species is provided; only *N. caudatum* presents in Thailand.

KOYAMA, Tetsuo

1973. New Cyperaceae from Nepal and adjoining Tibet.

Bot. Mag. Tokyo 86: 275-283, 7 figs.

Describing 4 new taxa from Nepal and Tibet.

1974. Additional Notes on Ceylonese Cyperaceae.

Bull. Nat. Sci. Mus. Tokyo 17(1): 65-73, 3 figures.

Describing 4 new taxa and reporting one new record from Ceylon.

Eleocharis retroflexa (Poir.) Urb. ssp. *chaetaria* (Roem. & Schultes.) T. Koyama, *Scirpus parvula* Steud., and *Fimbristylis pubisquama* Kern may occur in Thailand, judging on their geographical range of distribution.

1974. Four new species of *Smilax* (Smilacaceae) from South-eastern Asia.

Brittonia 26(2) : 133-138, 2 figs.

Describing 4 new species from India, Upper Burma, China, Vietnam, and Thailand *Smilax inversa* and *Smilax siamensis*.

LARSEN, Kai and S. Saksuwan Larsen

1974. A new *Amorphophallus* from Thailand.

Reinwardtia 9(1) : 139-142. one figure.

A. dixenii K. & S. Larsen is described, basing on plant growing in Aarhus from a tuber brought from Chiang Dao. alt. 650 m., in 1970; the plant flowered in 1971.

LEWITZ, S. et B. ROLLET

1973. Lexique des noms d'arbres et d'arbustes du Cambodge.

Bull. École Franc. extr.- or. 60 : 117-162.

692 terms are listed with cambodian plant names.

MARKGRAF, F.

1974. Florae Malesianae Procursores LIV. Apocynaceae III.

Blumea 22(1) ; 20-29, one photo.

Dealing with *Alstonia*, an identification key to 12 species is provided; no novelty.

MORTON, C.V.

1974. William Roxburgh's fern types.

Bull. U.S. Nat. Mus. Contr. U.S. Nat. Herb. 38(7) : 283-396.

Treating 152 taxa, 13 new combinations are made on Asiatic ferns; the paper is posthumously published.

MUKHERJEE, Prasanta K. and Lincoln CONSTANCE

1974. *Vanasushava*, an old South Indian umbellifer renamed.
Kew Bull. 25(3): 593-596. one figure.

The South Indian umbellifer, previously named *Hera-
cleum pedatum* Wight, has been described as a monotypic
new genus *Vanasushava*.

PATIL, R.B. & R.D. CRUZ

1973. A new species of *Ischaemum* Linn. from India.
J. Bombay Nat. Hist. Soc. 70(2): 324-325, one plate.

Ischaemum vembnadense is described, basing on a
collection from Kerala, India.

RIDSDALE, C.E.

1974. A revision of the family Lecaceae
Blumea 22(1): 57-100, 10 figures.

A world-wide revision of the family with a single
genus has been achieved. Types of ruminant endosperms
of the seed and new types of pearl glands have been illus-
trated and described. Thirty species are recognized to
occur in the Indo-Malayan area, while 2 are restricted to the
Afro-Madagascar area. One new species from N. Guinea
is described; a number of Thai species has been treated as
synonyms.

An identification key to all species is provided.

SATAKE, Yoshisuke

1974. *Eriocaulon* of Thailand.
Acta Phytotax. Geobot. 26(1-2): 41-51, 13 figures. (in
Japanese and English with Latin diagnosis of new taxa).

Dealing with 8 species of which a new species and 3
new varieties are described: *Eriocaulon tagawae*, *E. pseudo-
nepalense*, *E. kradungense* and *E. dipsacoides*. *Eriocaulon*
tagawae recalled *E. siamense* Moldenke.

SEDDON, G.

1974. Xerophytes, xeromorphs and sclerophylls: the history of some concepts in ecology.
Biol. J. Linn. Soc. 6: 65-87.

The term xeromorphic means dry-form; sclerophyllous means hard-leaved. The former was coined by Warming (1895) and the latter by Schimper (1898).

SIDDIQI, Mohammad Amin

1974. New plant records for Pakistan, Azad Jammu and Kashmir II.
Pakist. J. For. 24(2): 114-119, 2 figures.

Recording 5 species of flowering plants and fern-allies.

SLEUMER, H.

1974. Note on the genus *Barteria* Hk. f. (Flacourtiaceae or Passifloraceae).
Blumea 22(1): 13-14.

After a thorough study, the author found that only one species of *Barteria* is in existence: the species complex has been divided into subsections.

1974. A concise revision of the Flacourtiaceae of new Caledonia and the Loyalty Islands.
Blumea 22(1): 123-147.

Dealing with 53 species in 4 genera (*Casearia*, *Homalium*, *Xylosma*, and the endemic genus *Lasiochlamys*), 21 species and 1 variety are described as new; 5 new combinations were made.

Identification keys are provided.

STEWART, R.R.

1974. Validation of some new names of Pakistan plants
Kew. Bull. 29(2): 443-444.

Fourteen taxa of flowering plants and ferns have been validated.

TAGAWA, Motozi

1974. The collection of Pteridophyta made in North Borneo by the Osaka City University Fifth Scientific Expedition to Southeast Asia I.

Acta Phytotax. Geobot. **26**(3-4): 107-118.

Enumeration of 80 species in 24 genera has been reported; the largest genus is *Cyathea* (22 species), seconded by *Lycopodium* (13 species). A large collection of *Selaginella* is not determined; no novelty.

TAGAWA, Motozi and IWATSUKI, Kunio

1974. New or interesting ferns from Thailand 8.

Acta Phytotax. Geobot. **26**(1-2): 58-61, one fig.

Dealing with 6 species, one of which is new to science, *Heterogonium hennipmanii* from Doi Musoe in Tak.

Pleocnemia winitii Holtt. is reduced to a synonym of *P. submembranacea* (Hayata) Tagawa & Iwatsuki.

TOWSEND, C. C

1974. Notes on Amaranthaceae 2.

Kew. Bull. **29**(3): 461-475, 2 plates.

Two new genera were created: *Psilotrichopsis* to accommodate 2 species, *P. curtisii* and *P. cochinchinensis*; the latter also occurs in Thailand. *Triclurus* to accommodate *T. mousoniae*, the only Ceylonese species.

VELDKAMP, J.F.

1974. A taxonomic revision of *Dichelachne* Endl. (Gramineae) with some new combinations in *Stipa* L. and *Oryzopsis* Michx.

Blumea **22**(1): 5-12.

An identification key to 3 species of *Dichelachne* is given; two new combinations have been proposed:—*Oryzopsis lessoniana* (Steud.) Veldk. and *Stipa stipoides* (Hk.f.) Veldk.

VIDAL, J.E. and S. Hul THOL

1974. Revision du genre *Pterolobium* (Caesalpinaceae).
Bull. Mus. Nat. Hist. Nattle. 3 ser. 227: 1-29, 1 map,
4 plates.

Dealing with 10 species, synoptic and analytic keys are provided. *Pterolobium schmidtianum* Harms, *P. platypterum* Gagnep. and *P. punctatum* Hemsl. var. *opacum* Gagnep. are reduced to synonymies of *P. microphyllum* Miq.

Four species were recorded from Thailand.

WHITHORE, T.C.

1974. Studies in *Macaranga*: VI. Novelties from Borneo and a reduction in Malaya.
Kew. Bull. 29(2): 445-450.

Five species, 2 subspecies, one variety and 2 forms are described as new to science.

WILDE, W.J.J.O. De

1974. The genera of tribe Passifloreae (Passifloraceae), with special reference to flower morphology.
Blumea 22(1): 37-50, with 4 figures.

A comparative study on the floral structure has been undertaken with the result supporting the staminodial origin of the disk, and clarifying taxonomical problems of the tribe. An identification key to the genera of the Passifloreae has been provided with short descriptions.

WOOD, D.

1974. A revision of *Chirita* (Gesneriaceae).
Notes Roy. Bot. Gard. Edinb. 33(1): 123-205. one figure.

The genus is divided into 3 sections, to which key is provided. Under this study, 77 species are recognized, and a key to species is provided. Many species are recorded from Thailand.

Damrongia Kerr was recently reduced under *Chirita* (Buch. Ham. ex) D. Don (Wood. *ibid.* 31: 371. 1972).

C. pumila D. Don is a new record for Thailand (Garrett 445, Doi Angka), also *C. macrophylla* Wall. (Garrett 412, Doi Angka).

C. bimaculata D. Wood (previously descr. *ibid.* 31: 368. 1972). *Burt* 5611 (Mae Klong), *Garrett* 1002, *Put* 306 (Chiang Dao, Ban Tham), *Garrett* 1280; *Kerr* 1422, *Soerensen et al.* 4751, 4829 (Doi Suthep).

YIN, Geh Siew & Hsuan Keng

1974. Morphological studies on some inland Rhizophoraceae
Gard. Bull. Sing. 27(2): 183-220, 19 figures, 2 plates.

Specimens of 8 Malayan species belonging to 5 genera have been studied critically on their morphology. The results confirmed the concept of Hooker (1865), revised by Melchior (1964) that Malayan element should be accommodated in 3 tribes, namely; Rhizophoreae, Gynotrocheae and Anisophylleae.

T. Smitinand

